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ARIZONA CORPORATION COMMISSION  
DOCKET CONTROL

State Regulation

Mail Station 9708  
PO Box 53999  
Phoenix, Arizona 85072-3999  
Tel 602-250-2661  
Jeffrey.Johnson@aps.com

April 1, 2013

Docket Control  
Arizona Corporation Commission  
1200 W. Washington  
Phoenix, AZ 85007

RE: Arizona Public Service Company's Resource Planning Annual Filing for Historical  
Year 2012; Docket No. E-00000V-13-0070

Pursuant to A.A.C. R14-2-703, Arizona Public Service Company is filing its Historical  
Resource Planning report for 2012. The confidential portion of this filing will be  
provided to Staff upon execution of a Protective Agreement in this matter.

If you have any questions regarding this information, please contact me at (602)250-  
2661.

Sincerely,

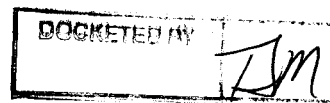
Jeffrey W. Johnson

JJ/cd

cc: Brian Bozzo  
Terri Ford  
Barbara Keene

Arizona Corporation Commission  
**DOCKETED**

APR 01 2013



***Arizona Public Service Company***

**RESOURCE PLANNING INFORMATION**

**FOR THE HISTORICAL YEAR 2012**

**In Compliance with  
Arizona Administrative Code R14-2-703**

***April 2013 Filing***

**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

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<b><u>A.A.C. Regulation R14-2-703, Sections A &amp; B</u></b>		<b><u>Location</u></b>
<b>A.</b>	<i>A load-serving entity shall, by April 1 of each year, file with Docket Control a compilation of the following items of demand-side data, including for each item for which no record is maintained the load-serving entity's best estimate and a full description of how the estimate was made:</i>	
<b>A.1</b>	Hourly demand for the previous calendar year, disaggregated by: a. Sales to end users; b. Sales for resale; c. Energy losses; and d. Other disposition of energy, such as energy furnished without charge and energy used by the load-serving entity;	Tab I
<b>A.2</b>	Coincident peak demand (megawatts) and energy consumption (megawatt-hours) by month for the previous 10 years disaggregated by customer class;	Tab II
<b>A.3</b>	Number of customers by customer class for each of the previous 10 years; and	Tab III
<b>A.4</b>	Reduction in load (kilowatt and kilowatt-hours) in the previous calendar year due to existing demand management measures, by type of demand management measure.	Tab IV
<b>B.</b>	<i>A load-serving entity shall, by April 1 of each year, file with Docket Control a compilation of the following items of supply-side data, including for each item for which no record is maintained the load-serving entity's best estimate and a full description of how the estimate was made:</i>	
<b>B.1</b>	For each generating unit and purchased power contract for the previous calendar year:  a. In-service date and book life or contract period; b. Type of generating unit or contract; c. The load-serving entity's share of the generating unit's capacity, or of capacity under the contract, in megawatts; d. Maximum generating unit or contract capacity, by hour, day, or month, if such capacity varies during the year; e. Annual capacity factor (generating units only); f. Average heat rate of generating units and, if available, heat rates at selected output levels; g. Average fuel cost for generating units, in dollars per million Btu for each type of fuel; h. Other variable operating and maintenance costs for generating units, in dollars per megawatt hour;	Tab V

**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

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<b><u>A.A.C. Regulation R14-2-703, Sections A &amp; B</u></b>		<b><u>Location</u></b>
<b>B.1 (cont.)</b>		
i. Purchased power energy costs for long-term contracts, in dollars per megawatt-hour;		
j. Fixed operating and maintenance costs of generating units, in dollars per megawatt;		
k. Demand charges for purchased power;		
l. Fuel type for each generating units;		
m. Minimum capacity at which the generating unit would be run or power must be purchased;		
n. Whether, under standard operating procedures, the generating unit must be run if it is available to run;		
o. Description of each generating unit as base load, intermediate, or peaking;		
p. Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation;		
q. Water consumption quantities and rates; and		
r. Tons of coal ash produced per generating unit;		
<b>B.2</b>	For the power supply system for the previous calendar year	Tab VI
a. A description of generating unit commitment procedures;		
b. Production cost;		
c. Reserve requirements;		
d. Spinning reserve;		
e. Reliability of generating, transmission, and distribution systems;		
f. Purchase and sale prices, averaged by month, for the aggregate of all purchases and sales related to short-term contracts; and		
g. Energy losses;		
<b>B.3</b>	The level of self-generation in the load-serving entity's service area for the previous calendar year; and	Tab VII
<b>B.4</b>	An explanation of any resources procurement processes used by the load-serving entity during the previous calendar year that did not include use of an RFP, including the exception under which the process was used.	Tab VIII

**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

**Tab I**

**R14-2-703 Section A.1.a**

Attached is the response to this section.

Date	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00.00
1/1/2012	2,440	2,385	2,219	2,365	2,385	2,401	2,512	2,566	2,569	2,492	2,438	2,366	2,375	2,324	2,316	2,307	2,365	2,574	2,820	2,791	2,727	2,629	2,479	2,348
1/2/2012	2,476	2,426	2,256	2,404	2,395	2,360	2,529	2,646	2,666	2,613	2,587	2,553	2,529	2,489	2,469	2,452	2,537	2,730	2,925	2,896	2,831	2,739	2,592	2,461
1/3/2012	2,311	2,257	2,087	2,234	2,373	2,542	2,620	2,664	2,681	2,779	2,707	2,664	2,646	2,610	2,548	2,534	2,583	2,780	3,005	2,989	2,943	2,854	2,639	2,479
1/4/2012	2,394	2,349	2,185	2,406	2,491	2,668	2,967	3,120	3,007	2,821	2,709	2,664	2,601	2,561	2,566	2,558	2,587	2,786	2,976	2,972	2,921	2,827	2,637	2,472
1/5/2012	2,375	2,336	2,170	2,425	2,463	2,620	2,950	3,074	2,976	2,825	2,732	2,683	2,621	2,585	2,552	2,577	2,621	2,782	2,987	2,989	2,945	2,860	2,684	2,515
1/6/2012	2,424	2,386	2,200	2,445	2,536	2,720	3,021	3,188	3,074	2,899	2,778	2,678	2,610	2,547	2,550	2,531	2,583	2,740	2,943	2,907	2,854	2,800	2,637	2,460
1/7/2012	2,433	2,397	2,214	2,454	2,546	2,746	3,041	3,204	3,090	2,915	2,794	2,694	2,626	2,561	2,564	2,545	2,594	2,756	2,947	2,902	2,848	2,792	2,640	2,517
1/8/2012	2,428	2,387	2,199	2,437	2,529	2,729	3,035	3,198	3,084	2,909	2,788	2,688	2,620	2,555	2,558	2,539	2,588	2,740	2,943	2,898	2,844	2,788	2,637	2,460
1/9/2012	2,480	2,453	2,262	2,494	2,609	2,836	3,206	3,364	3,257	2,978	2,868	2,729	2,660	2,425	2,489	2,466	2,549	2,756	3,047	3,054	3,079	2,975	2,725	2,563
1/10/2012	2,533	2,520	2,326	2,575	2,699	2,952	3,306	3,422	3,326	3,026	2,922	2,798	2,720	2,562	2,547	2,527	2,593	2,789	3,032	3,041	3,022	2,949	2,779	2,584
1/11/2012	2,509	2,498	2,301	2,547	2,671	2,918	3,254	3,347	3,248	2,948	2,848	2,720	2,657	2,496	2,567	2,569	2,627	2,844	3,046	3,029	3,094	3,005	2,785	2,584
1/12/2012	2,561	2,552	2,353	2,617	2,749	2,994	3,385	3,477	3,376	3,099	2,993	2,868	2,794	2,710	2,671	2,649	2,687	2,893	3,168	3,229	3,197	3,118	2,950	2,789
1/13/2012	2,693	2,677	2,475	2,749	2,884	3,113	3,485	3,644	3,455	3,148	2,990	2,868	2,792	2,669	2,528	2,522	2,580	2,726	2,960	2,983	2,982	2,952	2,837	2,720
1/14/2012	2,625	2,616	2,414	2,696	2,736	2,974	3,307	3,465	3,268	2,964	2,877	2,726	2,627	2,558	2,515	2,522	2,583	2,773	2,948	2,924	2,878	2,789	2,658	2,530
1/15/2012	2,434	2,374	2,176	2,382	2,372	2,394	2,526	2,606	2,668	2,694	2,681	2,625	2,602	2,580	2,518	2,510	2,584	2,772	2,948	2,920	2,882	2,723	2,571	2,427
1/16/2012	2,317	2,253	2,053	2,313	2,359	2,464	2,581	2,626	2,643	2,786	2,717	2,637	2,577	2,501	2,492	2,465	2,543	2,730	2,960	2,955	2,926	2,860	2,687	2,526
1/17/2012	2,442	2,418	2,245	2,468	2,569	2,759	3,175	3,325	3,140	2,956	2,853	2,638	2,570	2,525	2,493	2,486	2,554	2,692	2,940	2,957	2,923	2,829	2,642	2,498
1/18/2012	2,462	2,439	2,275	2,533	2,639	2,862	3,272	3,382	3,183	2,986	2,873	2,686	2,622	2,552	2,521	2,498	2,559	2,712	2,969	3,002	2,969	2,847	2,762	2,592
1/19/2012	2,509	2,500	2,326	2,574	2,706	2,937	3,325	3,480	3,268	3,002	2,892	2,699	2,610	2,536	2,480	2,474	2,516	2,633	2,899	2,939	2,917	2,854	2,702	2,529
1/20/2012	2,446	2,435	2,247	2,547	2,706	2,951	3,298	3,462	3,310	3,072	2,867	2,699	2,618	2,549	2,504	2,495	2,549	2,652	2,896	2,937	2,886	2,805	2,654	2,523
1/21/2012	2,438	2,379	2,198	2,438	2,595	2,849	3,254	3,422	3,258	2,983	2,889	2,743	2,675	2,619	2,486	2,446	2,479	2,666	2,924	2,924	2,866	2,782	2,626	2,503
1/22/2012	2,532	2,525	2,324	2,568	2,730	2,974	3,352	3,482	3,305	3,133	2,939	2,769	2,722	2,675	2,559	2,551	2,623	2,804	3,034	3,034	3,006	2,949	2,771	2,607
1/23/2012	2,477	2,425	2,239	2,457	2,597	2,810	3,189	3,285	3,125	2,906	2,793	2,682	2,616	2,560	2,520	2,517	2,560	2,732	3,003	3,018	3,009	2,962	2,877	2,711
1/24/2012	2,427	2,403	2,258	2,477	2,615	2,794	3,171	3,288	3,103	2,889	2,778	2,694	2,626	2,555	2,511	2,496	2,551	2,683	2,946	2,981	2,962	2,877	2,711	2,547
1/25/2012	2,459	2,435	2,264	2,495	2,623	2,869	3,255	3,377	3,195	2,980	2,790	2,682	2,616	2,560	2,520	2,517	2,560	2,683	2,946	2,965	2,918	2,839	2,681	2,518
1/26/2012	2,350	2,350	2,166	2,401	2,540	2,735	3,094	3,212	3,044	2,889	2,777	2,694	2,626	2,555	2,511	2,496	2,543	2,587	2,813	2,889	2,854	2,781	2,639	2,521
1/27/2012	2,409	2,367	2,185	2,327	2,365	2,468	2,569	2,706	2,714	2,653	2,577	2,504	2,431	2,431	2,420	2,415	2,489	2,632	2,889	2,931	2,878	2,749	2,561	2,405
1/28/2012	2,320	2,325	2,132	2,362	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
1/29/2012	2,328	2,320	2,137	2,362	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
1/30/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
1/31/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/1/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/2/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/3/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/4/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/5/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/6/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/7/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/8/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/9/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/10/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/11/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/12/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/13/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/14/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/15/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,560	2,813	2,889	2,854	2,781	2,639	2,521
2/16/2012	2,335	2,330	2,147	2,367	2,493	2,710	3,089	3,235	3,076	2,863	2,727	2,597	2,543	2,437	2,429	2,424	2,473	2,5						

3/26/2012	2,147	2,052	2,029	2,026	2,085	2,255	2,484	2,556	2,490	2,516	2,485	2,474	2,489	2,547	2,593	2,677	2,919	2,882	2,752	2,524	2,300
3/27/2012	2,193	2,126	2,108	2,117	2,192	2,363	2,601	2,631	2,600	2,555	2,542	2,523	2,587	2,660	2,699	2,753	2,938	2,892	2,771	2,523	2,291
3/28/2012	2,191	2,091	2,081	2,071	2,173	2,332	2,545	2,603	2,567	2,544	2,541	2,548	2,591	2,683	2,730	2,773	2,966	2,946	2,813	2,563	2,323
3/29/2012	2,211	2,132	2,086	2,091	2,187	2,337	2,547	2,599	2,589	2,582	2,608	2,618	2,649	2,758	2,803	2,827	2,989	2,946	2,802	2,575	2,362
3/30/2012	2,256	2,179	2,141	2,132	2,197	2,329	2,512	2,570	2,563	2,577	2,613	2,661	2,701	2,873	2,924	2,931	3,001	2,927	2,795	2,657	2,417
3/31/2012	2,293	2,202	2,155	2,127	2,145	2,181	2,184	2,282	2,404	2,489	2,572	2,687	2,869	2,948	2,975	2,954	3,030	2,950	2,807	2,627	2,398
4/1/2012	2,283	2,150	2,084	2,050	2,112	2,084	2,050	2,112	2,170	2,234	2,267	2,284	2,270	2,362	2,391	2,489	2,732	2,720	2,590	2,398	2,235
4/2/2012	2,127	2,057	2,025	2,051	2,117	2,249	2,446	2,505	2,500	2,475	2,471	2,457	2,420	2,514	2,417	2,421	2,630	2,826	2,674	2,428	2,267
4/3/2012	2,175	2,125	2,107	2,156	2,179	2,355	2,571	2,624	2,566	2,505	2,514	2,511	2,487	2,554	2,519	2,554	2,886	2,733	2,465	2,236	2,065
4/4/2012	2,121	2,076	2,036	2,041	2,123	2,306	2,523	2,598	2,571	2,551	2,551	2,546	2,550	2,603	2,674	2,711	2,880	2,832	2,704	2,456	2,243
4/5/2012	2,124	2,050	2,003	2,023	2,076	2,163	2,298	2,401	2,430	2,474	2,494	2,491	2,487	2,565	2,600	2,631	2,906	2,849	2,734	2,475	2,264
4/6/2012	2,194	2,099	2,037	2,073	2,092	2,133	2,180	2,278	2,383	2,458	2,478	2,500	2,519	2,565	2,606	2,629	2,782	2,776	2,670	2,484	2,312
4/7/2012	2,248	2,139	2,088	2,108	2,088	2,129	2,088	2,182	2,297	2,365	2,427	2,481	2,531	2,608	2,692	2,746	2,946	2,918	2,791	2,574	2,355
4/8/2012	2,233	2,144	2,098	2,123	2,176	2,291	2,493	2,608	2,653	2,706	2,787	2,891	2,974	3,085	3,197	3,295	3,391	3,372	3,248	2,974	2,755
4/9/2012	2,369	2,271	2,218	2,255	2,289	2,398	2,580	2,696	2,761	2,851	2,934	3,037	3,121	3,206	3,281	3,307	3,404	3,337	3,175	2,823	2,536
4/10/2012	2,355	2,247	2,191	2,220	2,255	2,366	2,549	2,662	2,746	2,831	2,914	3,017	3,092	3,178	3,263	3,348	3,441	3,372	3,206	2,852	2,610
4/11/2012	2,355	2,247	2,191	2,220	2,255	2,366	2,549	2,662	2,746	2,831	2,914	3,017	3,092	3,178	3,263	3,348	3,441	3,372	3,206	2,852	2,610
4/12/2012	2,271	2,139	2,133	2,178	2,218	2,248	2,374	2,541	2,631	2,711	2,848	2,873	2,937	3,026	3,101	3,127	3,208	3,141	2,974	2,724	2,475
4/13/2012	2,271	2,139	2,133	2,178	2,218	2,248	2,374	2,541	2,631	2,711	2,848	2,873	2,937	3,026	3,101	3,127	3,208	3,141	2,974	2,724	2,475
4/14/2012	2,271	2,139	2,133	2,178	2,218	2,248	2,374	2,541	2,631	2,711	2,848	2,873	2,937	3,026	3,101	3,127	3,208	3,141	2,974	2,724	2,475
4/15/2012	2,248	2,197	2,147	2,189	2,228	2,343	2,534	2,555	2,574	2,568	2,567	2,515	2,483	2,543	2,592	2,632	2,812	2,761	2,656	2,410	2,327
4/16/2012	2,250	2,170	2,105	2,125	2,153	2,175	2,174	2,231	2,301	2,333	2,352	2,322	2,313	2,305	2,294	2,329	2,502	2,452	2,352	2,101	2,017
4/17/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/18/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/19/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/20/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/21/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/22/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/23/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/24/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/25/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/26/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/27/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/28/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/29/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
4/30/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/1/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/2/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/3/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/4/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/5/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/6/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/7/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/8/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/9/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/10/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/11/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/12/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/13/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/14/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/15/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/16/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/17/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	2,256
5/18/2012	2,347	2,235	2,178	2,227	2,251	2,348	2,529	2,559	2,584	2,566	2,565	2,503	2,468	2,525	2,568	2,600	2,748	2,682	2,589	2,341	





9/14/2012	3,222	3,032	2,919	2,852	2,845	2,967	3,054	3,182	3,307	3,405	3,481	3,570	3,667	3,829	4,019	4,123	4,200	4,140	3,981	3,924	3,709	3,528	3,317	3,086
9/15/2012	2,911	2,757	2,659	2,577	2,557	2,596	2,545	2,700	2,941	3,122	3,301	3,498	3,668	3,860	4,061	4,123	4,299	4,252	4,080	3,952	3,704	3,528	3,317	3,086
9/16/2012	2,851	2,690	2,574	2,494	2,443	2,435	2,389	2,499	2,744	3,002	3,256	3,523	3,824	4,082	4,307	4,480	4,551	4,473	4,275	4,192	3,929	3,640	3,357	3,019
9/17/2012	2,867	2,727	2,635	2,568	2,625	2,803	2,926	3,067	3,257	3,466	3,687	3,912	4,163	4,382	4,571	4,671	4,720	4,641	4,485	4,455	4,209	3,911	3,558	3,248
9/18/2012	3,101	2,927	2,846	2,781	2,800	2,952	3,038	3,213	3,376	3,550	3,760	4,004	4,271	4,542	4,744	4,942	5,006	4,912	4,675	4,579	4,315	3,990	3,669	3,308
9/19/2012	3,110	2,926	2,791	2,732	2,750	2,925	3,084	3,154	3,298	3,475	3,748	4,044	4,320	4,651	4,926	5,123	5,134	5,017	4,757	4,654	4,359	4,033	3,669	3,325
9/20/2012	3,110	2,926	2,791	2,732	2,750	2,925	3,084	3,154	3,298	3,475	3,748	4,044	4,320	4,651	4,926	5,123	5,134	5,017	4,757	4,654	4,359	4,033	3,669	3,325
9/21/2012	3,110	2,926	2,791	2,732	2,750	2,925	3,084	3,154	3,298	3,475	3,748	4,044	4,320	4,651	4,926	5,123	5,134	5,017	4,757	4,654	4,359	4,033	3,669	3,325
9/22/2012	3,182	2,984	2,847	2,764	2,705	2,739	2,709	3,018	3,141	3,325	3,504	3,698	3,946	4,231	4,494	4,785	5,172	5,084	4,795	4,551	4,228	3,961	3,659	3,370
9/23/2012	3,238	3,052	2,914	2,826	2,741	2,734	2,700	3,018	3,141	3,325	3,504	3,698	3,946	4,231	4,494	4,785	5,172	5,084	4,795	4,551	4,228	3,961	3,659	3,370
9/24/2012	3,067	2,891	2,765	2,674	2,602	2,617	2,580	2,899	3,021	3,196	3,371	3,556	3,739	3,922	4,105	4,277	4,452	4,268	4,043	3,855	3,595	3,332	3,069	2,794
9/25/2012	2,963	2,791	2,721	2,656	2,673	2,835	2,974	3,063	3,215	3,360	3,503	3,698	3,879	4,059	4,232	4,333	4,361	4,249	4,140	4,051	3,851	3,583	3,312	3,069
9/26/2012	2,868	2,668	2,603	2,568	2,577	2,717	2,832	2,926	3,060	3,216	3,368	3,527	3,684	3,844	4,005	4,166	4,196	4,085	3,965	3,856	3,656	3,395	3,102	2,864
9/27/2012	2,868	2,668	2,603	2,568	2,577	2,717	2,832	2,926	3,060	3,216	3,368	3,527	3,684	3,844	4,005	4,166	4,196	4,085	3,965	3,856	3,656	3,395	3,102	2,864
9/28/2012	2,868	2,668	2,603	2,568	2,577	2,717	2,832	2,926	3,060	3,216	3,368	3,527	3,684	3,844	4,005	4,166	4,196	4,085	3,965	3,856	3,656	3,395	3,102	2,864
9/29/2012	2,967	2,828	2,724	2,671	2,674	2,811	2,926	3,041	3,157	3,312	3,468	3,638	3,808	3,978	4,148	4,318	4,408	4,308	4,198	4,088	3,888	3,629	3,368	3,107
9/30/2012	2,967	2,828	2,724	2,671	2,674	2,811	2,926	3,041	3,157	3,312	3,468	3,638	3,808	3,978	4,148	4,318	4,408	4,308	4,198	4,088	3,888	3,629	3,368	3,107
10/1/2012	2,919	2,749	2,638	2,565	2,571	2,481	2,426	2,516	2,621	2,732	2,843	2,954	3,065	3,176	3,287	3,398	3,452	3,342	3,232	3,122	2,992	2,862	2,732	2,602
10/2/2012	2,885	2,719	2,608	2,535	2,541	2,451	2,396	2,486	2,591	2,702	2,813	2,924	3,035	3,146	3,257	3,368	3,422	3,312	3,202	3,092	2,962	2,832	2,702	2,572
10/3/2012	2,936	2,769	2,658	2,585	2,591	2,501	2,446	2,536	2,641	2,752	2,863	2,974	3,085	3,196	3,307	3,418	3,472	3,362	3,252	3,142	3,012	2,882	2,752	2,622
10/4/2012	2,869	2,678	2,567	2,494	2,499	2,404	2,349	2,439	2,544	2,655	2,766	2,877	2,988	3,099	3,210	3,321	3,375	3,265	3,155	3,045	2,915	2,785	2,655	2,525
10/5/2012	2,833	2,533	2,471	2,417	2,382	2,384	2,343	2,384	2,441	2,500	2,559	2,618	2,677	2,736	2,795	2,854	2,913	2,803	2,693	2,583	2,453	2,323	2,193	2,063
10/6/2012	2,639	2,507	2,427	2,387	2,424	2,545	2,600	2,669	2,778	2,893	3,008	3,123	3,238	3,353	3,468	3,583	3,647	3,537	3,427	3,317	3,187	3,057	2,927	2,797
10/7/2012	2,639	2,507	2,427	2,387	2,424	2,545	2,600	2,669	2,778	2,893	3,008	3,123	3,238	3,353	3,468	3,583	3,647	3,537	3,427	3,317	3,187	3,057	2,927	2,797
10/8/2012	2,639	2,507	2,427	2,387	2,424	2,545	2,600	2,669	2,778	2,893	3,008	3,123	3,238	3,353	3,468	3,583	3,647	3,537	3,427	3,317	3,187	3,057	2,927	2,797
10/9/2012	2,639	2,507	2,427	2,387	2,424	2,545	2,600	2,669	2,778	2,893	3,008	3,123	3,238	3,353	3,468	3,583	3,647	3,537	3,427	3,317	3,187	3,057	2,927	2,797
10/10/2012	2,721	2,606	2,521	2,465	2,512	2,657	2,729	2,796	2,896	3,007	3,118	3,229	3,340	3,451	3,562	3,673	3,737	3,627	3,517	3,407	3,277	3,147	3,017	2,887
10/11/2012	2,684	2,565	2,478	2,422	2,464	2,593	2,667	2,730	2,830	2,941	3,052	3,163	3,274	3,385	3,496	3,607	3,671	3,561	3,451	3,341	3,211	3,081	2,951	2,821
10/12/2012	2,684	2,565	2,478	2,422	2,464	2,593	2,667	2,730	2,830	2,941	3,052	3,163	3,274	3,385	3,496	3,607	3,671	3,561	3,451	3,341	3,211	3,081	2,951	2,821
10/13/2012	2,684	2,565	2,478	2,422	2,464	2,593	2,667	2,730	2,830	2,941	3,052	3,163	3,274	3,385	3,496	3,607	3,671	3,561	3,451	3,341	3,211	3,081	2,951	2,821
10/14/2012	2,368	2,289	2,237	2,205	2,212	2,263	2,293	2,323	2,353	2,383	2,413	2,443	2,473	2,503	2,533	2,563	2,627	2,517	2,407	2,297	2,167	2,037	1,907	1,777
10/15/2012	2,368	2,289	2,237	2,205	2,212	2,263	2,293	2,323	2,353	2,383	2,413	2,443	2,473	2,503	2,533	2,563	2,627	2,517	2,407	2,297	2,167	2,037	1,907	1,777
10/16/2012	2,368	2,289	2,237	2,205	2,212	2,263	2,293	2,323	2,353	2,383	2,413	2,443	2,473	2,503	2,533	2,563	2,627	2,517	2,407	2,297	2,167	2,037	1,907	1,777
10/17/2012	2,368	2,289	2,237	2,205	2,212	2,263	2,293	2,323	2,353	2,383	2,413	2,443	2,473	2,503	2,533	2,563	2,627	2,517	2,407	2,297	2,167	2,037	1,907	1,777
10/18/2012	2,368	2,289	2,237	2,205	2,212	2,263	2,293	2,323	2,353	2,383	2,413	2,443	2,473	2,503	2,533	2,563	2,627	2,517	2,407	2,297	2,167	2,037	1,907	1,777
10/19/2012	2,368	2,289	2,237	2,205	2,212	2,263	2,293	2,323	2,353	2,383	2,413	2,443	2,473	2,503	2,533	2,563	2,627	2,517	2,407	2,297	2,167	2,037	1,907	1,777
10/20/2012	2,521	2,392	2,309	2,297	2,282	2,394	2,469	2,544	2,619	2,694	2,769	2,844	2,919	3,004	3,079	3,154	3,229	3,104	2,979	2,854	2,729	2,604	2,479	2,354
10/21/2012	2,521	2,392	2,309	2,297	2,282	2,394	2,469	2,544	2,619	2,694	2,769	2,844	2,919	3,004	3,079	3,154	3,229	3,104	2,979	2,854	2,729	2,604	2,479	2,354
10/22/2012	2,521	2,392	2,309	2,297	2,282	2,394	2,469	2,544	2,619	2,694	2,769	2,844	2,919	3,004	3,079	3,154	3,229	3,104	2,979	2,854	2,729	2,604	2,479	2,354
10/23/2012	2,389	2,314	2,256	2,244	2,314	2,471	2,511	2,584	2,648	2,712	2,776	2,840	2,904	2,968	3,032	3,096	3,160	3,035	2,910	2,785	2,660	2,535	2,410	2,285
10/24/2012	2,389	2,314	2,256	2,244	2,314	2,471	2,511	2,584	2,648	2,712	2,776	2,840	2,904	2,968	3,032	3,096	3,160	3,035	2,910	2,785	2,660	2,535	2,410	2,285
10/25/2012	2,389	2,314	2,256	2,244	2,314	2,471	2,511	2,584	2,648	2,712	2,776	2,840	2,904	2,968	3,032	3,096	3,160	3,035	2,910	2,785	2,660	2,535	2,410	2,285
10/26/2012	2,285	2,230	2,199	2,204	2,267	2,433	2,572	2,584	2,558	2,532	2,506	2,480	2,454	2,428	2,402	2,376	2,350	2,225	2,100	1,975	1,850	1,725	1,600	1,475
10/27/2012	2,326	2,235	2,220	2,217	2,271	2,436	2,553	2,553	2,531	2,504	2,477	2,450	2,423	2,396	2,369	2,342	2,315	2,190	2,065	1,940	1,815	1,690	1,565	1,440
10/28/2012	2,284	2,232	2,214	2,188	2,209	2,263	2,234	2,275	2,362	2,427	2,484	2,541	2,598	2,655	2,712	2,769	2,826	2,701	2,576	2,451	2,326	2,201	2,076	1,951
10/29/2012	2,284	2,232	2,214	2,188	2,209	2,263	2,234	2,275	2,362	2,427	2,484	2,541	2,598	2,655	2,712	2,769	2,826	2,701	2,576	2,451	2,326	2,201	2,076	1,951
10/30/2012	2,284	2,232	2,214	2,188	2,209	2,263	2,234	2,275	2,362	2,427	2,484	2,541	2,598	2,655	2,712	2,769	2,826	2,701	2,576	2,451	2,326	2,201	2,076	1,951
10/31/2012	2,384	2,311	2,269	2,273	2,321	2,490	2,580	2,660	2,731	2,802	2,873	2,944												

12/9/2012	2,278	2,253	2,246	2,223	2,258	2,307	2,379	2,426	2,466	2,497	2,413	2,349	2,308	2,275	2,273	2,298	2,426	2,729	2,993	3,037	2,969	2,943	2,631	2,425
12/10/2012	2,313	2,284	2,265	2,302	2,402	2,857	2,936	3,028	2,869	2,778	2,694	2,594	2,529	2,466	2,453	2,463	2,574	2,848	3,126	3,172	3,127	3,027	2,795	2,594
12/11/2012	2,489	2,466	2,442	2,484	2,575	2,854	3,167	3,262	3,047	2,910	2,747	2,618	2,539	2,498	2,473	2,499	2,586	2,876	3,125	3,160	3,144	3,027	2,795	2,594
12/12/2012	2,492	2,442	2,433	2,449	2,551	2,805	3,125	3,216	3,010	2,809	2,688	2,577	2,501	2,462	2,437	2,451	2,504	2,781	3,048	3,078	3,052	2,984	2,781	2,538
12/13/2012	2,424	2,399	2,390	2,418	2,533	2,794	3,103	3,169	2,989	2,854	2,717	2,599	2,540	2,535	2,531	2,545	2,664	2,916	3,122	3,113	3,067	2,939	2,705	2,478
12/14/2012	2,379	2,351	2,351	2,333	2,382	2,579	2,849	2,937	2,857	2,778	2,699	2,634	2,591	2,537	2,510	2,530	2,617	2,846	3,064	3,092	3,052	2,969	2,840	2,682
12/15/2012	2,569	2,508	2,494	2,497	2,498	2,560	2,626	2,749	2,810	2,902	2,940	2,898	2,864	2,782	2,736	2,802	2,878	3,068	3,172	3,118	3,058	3,015	2,864	2,713
12/16/2012	2,605	2,538	2,505	2,504	2,496	2,576	2,644	2,766	2,783	2,779	2,892	2,959	2,924	2,863	2,448	2,486	2,587	2,862	3,120	3,143	3,150	3,086	2,874	2,647
12/17/2012	2,521	2,474	2,460	2,500	2,627	2,895	3,217	3,289	3,139	2,989	2,862	2,743	2,634	2,544	2,501	2,522	2,637	2,906	3,163	3,214	3,162	3,097	2,890	2,636
12/18/2012	2,568	2,501	2,493	2,483	2,568	2,858	3,158	3,215	3,062	2,914	2,795	2,681	2,570	2,561	2,567	2,582	2,668	2,939	3,135	3,149	3,086	3,011	2,844	2,587
12/19/2012	2,536	2,501	2,459	2,510	2,578	2,815	3,111	3,225	3,051	2,945	2,806	2,661	2,565	2,520	2,499	2,525	2,665	2,973	3,249	3,336	3,335	3,281	3,084	2,873
12/20/2012	2,773	2,736	2,738	2,773	2,904	3,150	3,464	3,560	3,349	3,154	2,963	2,804	2,667	2,570	2,541	2,544	2,653	2,946	3,208	3,253	3,222	3,156	2,968	2,803
12/21/2012	2,671	2,617	2,598	2,639	2,745	2,974	3,242	3,353	3,183	2,989	2,866	2,747	2,649	2,487	2,456	2,491	2,577	2,823	3,038	3,068	3,036	2,984	2,848	2,694
12/22/2012	2,556	2,510	2,479	2,476	2,510	2,597	2,696	2,774	2,806	2,817	2,696	2,563	2,463	2,396	2,360	2,332	2,428	2,662	2,883	2,919	2,913	2,873	2,737	2,595
12/23/2012	2,477	2,440	2,426	2,454	2,534	2,653	2,774	2,850	2,866	2,826	2,716	2,625	2,488	2,452	2,411	2,414	2,482	2,708	2,954	2,951	2,906	2,820	2,654	2,561
12/24/2012	2,439	2,378	2,356	2,377	2,439	2,558	2,645	2,748	2,797	2,821	2,756	2,679	2,602	2,491	2,412	2,397	2,485	2,696	2,884	2,929	2,942	2,835	2,792	2,645
12/25/2012	2,429	2,378	2,356	2,377	2,439	2,558	2,645	2,748	2,797	2,821	2,756	2,679	2,602	2,491	2,412	2,397	2,485	2,696	2,884	2,929	2,942	2,835	2,792	2,645
12/26/2012	2,552	2,532	2,538	2,549	2,667	2,868	3,045	3,157	3,058	3,010	2,877	2,740	2,642	2,552	2,454	2,483	2,582	2,868	3,104	3,156	3,157	3,102	2,979	2,811
12/27/2012	2,674	2,680	2,686	2,703	2,806	2,996	3,160	3,274	3,295	3,241	3,143	3,013	2,830	2,683	2,621	2,605	2,714	2,994	3,271	3,331	3,301	3,250	3,060	2,884
12/28/2012	2,796	2,769	2,781	2,829	2,940	3,135	3,346	3,479	3,402	3,228	3,057	2,878	2,728	2,624	2,555	2,551	2,668	2,910	3,199	3,266	3,275	3,244	3,115	2,957
12/29/2012	2,858	2,810	2,799	2,834	2,867	2,992	3,104	3,232	3,217	3,119	2,982	2,840	2,718	2,622	2,549	2,532	2,612	2,855	3,119	3,147	3,134	3,063	2,915	2,784
12/30/2012	2,702	2,637	2,601	2,602	2,629	2,720	2,785	2,907	2,960	3,043	2,990	2,885	2,750	2,629	2,588	2,648	2,862	3,117	3,309	3,277	3,221	3,193	3,032	2,845
12/31/2012	2,758	2,707	2,716	2,727	2,800	2,970	3,149	3,287	3,280	3,189	3,029	2,899	2,777	2,697	2,660	2,646	2,749	3,034	3,276	3,270	3,188	3,160	3,064	3,007

## Tabl i

Hourly demand for the previous calendar year is not available. Monthly megawatt-hours (MWh) are listed below.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ENERGY (MWH)	46,369	54,489	60,603	69,859	92,089	112,999	61,175	63,302	45,785	41,955	27,481	27,404

**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

**Tab I  
R14-2-703 Section: A.1.c**

Hourly demand for the previous calendar year is not available. Monthly MWh are listed below.

	ENERGY LOSSES											
	2012											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ENERGY (MWH)	217,935	160,357	152,201	126,249	168,491	195,787	215,472	191,097	155,223	142,622	145,927	176,351

Energy losses shown are exclusive of APS unregulated activities.

**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

**Tab I**

**R14-2-703 Section: A.1.d**

Hourly demand for the previous calendar year is not available. Monthly MWh are listed below.

	COMPANY USE											
	2012											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ENERGY (MWH)	4,873	4,677	4,799	4,485	4,830	4,674	5,798	5,823	5,800	4,895	5,014	5,038

**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

**Tab II**

**R14-2-703 Section A.2**

Coincident peak demand (megawatts) and energy demand (megawatt hours) by month for twelve months ending December 2012 is attached.



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* Total Residential \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	6,124.2	5,759.3	5,914.9	6,286.7	6,689.8	7,365.7	7,382.2	7,624.8	6,950.4	6,103.6	5,582.7	6,314.9
On-Peak	4,783.5	4,469.7	4,623.9	5,112.0	5,909.0	6,606.1	6,564.3	6,846.8	5,913.6	5,352.8	4,531.4	5,100.2
Off-Peak	5,886.4	5,524.0	5,667.8	6,018.8	6,186.3	6,951.9	7,016.0	7,270.0	6,689.0	5,599.6	5,305.1	6,065.8

**CLASS PEAK (MW)**

On-Peak Weighted	1,876.0	1,757.5	1,710.5	2,610.7	3,487.5	4,235.6	4,295.1	4,639.9	3,897.9	3,010.0	1,782.2	2,150.3
Off-Peak Weighted	2,357.7	2,188.6	2,048.0	3,162.1	3,341.2	4,167.0	4,288.2	4,754.4	3,998.0	2,562.5	1,906.9	2,377.6

**CONCIDENT (MW)**

System	2,003.2	1,797.4	1,642.3	2,723.4	2,913.2	3,496.7	3,490.3	3,798.4	3,395.4	2,639.8	1,635.6	1,996.1
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	267,639	207,687	213,662	230,390	400,080	533,238	594,612	626,141	420,304	328,657	215,634	219,415
%	26.5%	27.1%	27.5%	30.0%	37.2%	35.8%	34.7%	35.9%	30.9%	34.7%	28.8%	25.6%
Off-Peak	740,706	558,950	564,286	536,879	675,579	955,988	1,119,459	1,116,697	941,005	618,697	532,662	636,372
%	73.5%	72.9%	72.5%	70.0%	62.8%	64.2%	65.3%	64.1%	69.1%	65.3%	71.2%	74.4%
Total	1,008,345	766,637	777,948	767,269	1,075,659	1,489,226	1,714,071	1,742,838	1,361,309	947,354	748,296	855,787

**CUSTOMERS**

Monthly Count	1,007,536	1,006,728	1,008,481	1,005,133	999,966	998,870	997,467	1,001,586	1,003,527	1,004,668	1,009,557	1,017,371
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All load factors are calculated based on 730 hours per month.

**FACTORS**

Coincident Factor (CP)	0.327	0.312	0.278	0.433	0.435	0.475	0.473	0.498	0.489	0.432	0.293	0.316
Load Factor (Max) %	22.6%	18.2%	18.0%	16.7%	22.0%	27.7%	31.8%	31.3%	26.8%	21.3%	18.4%	18.6%
Load Factor (NCP) %	58.6%	48.4%	52.0%	33.2%	42.3%	48.2%	54.7%	50.2%	46.6%	43.1%	53.8%	49.3%
Load Factor (CP) %	69.0%	58.4%	64.9%	38.6%	50.6%	58.3%	67.3%	62.9%	54.9%	49.2%	62.7%	58.7%

**CUSTOMER AVERAGES**

Energy Use (kWh)	1,001	762	771	763	1,076	1,491	1,718	1,740	1,357	943	741	841
Ind. Max Demand (kW)	6.08	5.72	5.87	6.25	6.69	7.37	7.40	7.61	6.93	6.08	5.53	6.21
Coincident Demand (kW)	1.99	1.79	1.63	2.71	2.91	3.50	3.50	3.79	3.38	2.83	1.62	1.96

TOU Periods - All Months: On-Peak 9 am - 9 pm, M-F Off-Peak 9 am - 9 pm, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

7,624.8	6,314.9	7,624.8
6,846.8	5,112.0	6,846.8
7,270.0	6,065.8	7,270.0

Class Peak by Season

4,639.9	2,610.7	4,639.9
4,754.4	3,162.1	4,754.4

Coincident Peak by Season

3,798.4	2,723.4	3,798.4
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Energy Summation by Season

2,903,032	1,354,427	4,257,459
34.8%	27.5%	32.1%
5,427,425	3,569,855	8,997,280
65.2%	72.5%	67.9%
8,330,457	4,924,282	13,254,739

Customer Averages by Season

1,001,014	1,009,134	1,005,074
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Seasonal Factors

0.498	0.431	0.498
24.9%	17.8%	19.8%
40.0%	35.6%	31.8%
54.5%	56.3%	43.4%

Seasonal Averages

1,387	813	1,100
7.01	5.94	6.48
3.29	1.95	2.62



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-20 \*\*\*

		Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
<b>SUMMATION IND MAX (MW)</b>													
Non-Timed		15.0	14.3	14.6	20.2	21.7	24.6	27.1	32.6	26.8	20.1	15.4	15.6
On-Peak		10.5	10.3	11.0	14.1	18.0	19.7	20.8	25.9	20.0	17.3	12.0	11.6
Off-Peak		14.8	14.0	14.3	20.1	21.2	24.1	26.8	32.0	26.4	19.3	14.8	15.3
<b>CLASS PEAK (MW)</b>													
On-Peak		5.6	6.4	5.9	7.3	9.5	11.0	10.3	14.1	11.8	9.8	6.6	7.1
Off-Peak		10.3	9.7	9.7	16.4	17.3	19.9	22.0	27.1	22.8	15.1	11.8	10.5
<b>COINCIDENT (MW)</b>													
System		4.0	3.4	3.0	6.0	5.3	6.8	5.4	7.9	6.4	4.8	3.7	3.4
Time		13h@0800	15h@0800	8h@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800
<b>ENERGY (MWH)</b>													
On-Peak		698	756	823	882	1,450	1,583	2,105	1,484	1,436	916	726	726
%		28.3%	30.6%	31.3%	33.0%	38.5%	35.8%	33.8%	36.6%	37.8%	34.4%	28.6%	28.6%
Off-Peak		1,768	1,714	1,806	1,792	2,316	2,527	3,100	3,647	3,055	2,363	1,748	1,811
%		71.7%	69.4%	68.7%	67.0%	61.5%	64.2%	66.2%	63.4%	62.2%	65.6%	71.4%	71.4%
Total		2,466	2,470	2,629	2,674	3,766	3,936	4,683	5,152	4,539	3,799	2,664	2,537
<b>CUSTOMERS</b>													
Monthly Count		410	407	404	410	404	375	405	462	409	409	404	383
<b>FACTORS</b>													
All load factors are calculated based on 730 hours per month.													
Coincident Factor (C/P)		0.266	0.238	0.205	0.297	0.245	0.276	0.199	0.243	0.239	0.238	0.240	0.218
Load Factor (Max) %		22.5%	23.7%	24.7%	18.1%	23.8%	21.9%	23.7%	24.2%	23.2%	25.8%	23.7%	22.3%
Load Factor (NCP) %		32.7%	34.9%	37.0%	22.4%	29.9%	27.1%	29.1%	29.1%	27.3%	34.5%	30.8%	33.1%
Load Factor (CP) %		84.5%	99.5%	120.0%	61.1%	97.3%	79.3%	118.8%	99.7%	97.2%	108.4%	98.6%	102.2%
<b>CUSTOMER AVERAGES</b>													
Energy Use (kWh)		6,015	6,069	6,507	6,522	9,322	10,496	11,563	12,450	11,098	9,289	6,594	6,624
Ind. Max Demand (kW)		36.62	35.05	36.16	49.34	53.65	65.65	66.94	70.49	65.50	49.25	38.10	40.67
Coincident Demand (kW)		9.76	8.35	7.43	14.63	13.12	18.13	13.33	17.10	15.65	11.74	9.16	8.88

TOU Periods - All Months:	On-Peak	Off-Peak
	11 am - 9 pm, M-F	9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
32.6	20.2	32.6
25.9	14.1	25.9
32.0	20.1	32.0
Summation Ind Max by Season		
32.6	20.2	32.6
25.9	14.1	25.9
32.0	20.1	32.0
Class Peak by Season		
14.1	7.3	14.1
27.1	16.4	27.1
Coincident Peak by Season		
7.9	6.0	7.9
Energy Summation by Season		
9,467	4,801	14,268
35.8%	31.1%	34.0%
17,008	10,639	27,647
64.2%	68.9%	66.0%
26,475	15,440	41,915
Customer Averages by Season		
411	403	407
Seasonal Factors		
0.243	0.297	0.243
18.6%	17.4%	14.7%
22.3%	21.5%	17.6%
111.9%	103.7%	88.6%
Seasonal Averages		
10,703	6,388	8,546
61.91	39.32	50.62
14.84	9.70	12.27





Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-221 \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	125.1	130.4	133.2	157.6	154.7	164.4	134.7	163.1	128.8	143.6	141.4	120.3
On-Peak	109.4	112.8	119.2	139.4	135.2	136.6	117.6	140.6	108.1	129.6	118.8	99.5
Off-Peak	120.4	127.3	131.3	156.7	153.2	163.1	134.2	161.4	126.6	141.8	139.7	117.1
<b>CLASS PEAK (MW)</b>												
On-Peak	46.6	46.3	54.0	78.0	78.5	80.3	68.6	81.4	56.9	66.3	58.9	44.5
Off-Peak	55.6	54.7	60.4	82.7	92.7	92.3	78.4	97.7	70.4	80.7	70.9	56.1
<b>COINCIDENT (MW)</b>												
System	37.2	34.7	39.9	34.8	38.4	36.7	26.2	34.5	29.8	36.8	41.8	29.5
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800
<b>ENERGY (MWH)</b>												
On-Peak	5,033	5,242	5,803	7,399	9,356	10,026	8,811	8,990	5,511	9,471	7,807	5,437
%	29.0%	28.3%	27.6%	26.1%	26.3%	25.3%	24.4%	24.9%	23.1%	30.1%	28.1%	25.6%
Off-Peak	12,321	13,281	15,222	20,949	26,217	29,603	27,299	27,115	18,348	21,985	19,975	15,801
%	71.0%	71.7%	72.4%	73.9%	73.7%	74.7%	75.6%	75.1%	76.9%	69.9%	71.9%	74.4%
Total	17,354	18,523	21,025	28,348	35,573	39,629	36,110	36,105	23,859	31,456	27,782	21,238
<b>CUSTOMERS</b>												
Monthly Count	1,472	1,440	1,406	1,557	1,480	1,415	1,434	1,502	1,355	1,362	1,491	1,411
<b>FACTORS</b>												
All load factors are calculated based on 730 hours per month.												
Coincident Factor (CP)	0.297	0.266	0.300	0.221	0.248	0.223	0.194	0.212	0.231	0.256	0.296	0.245
Load Factor (Max) %	19.0%	19.5%	21.6%	24.6%	31.5%	33.0%	36.7%	30.3%	25.4%	30.0%	26.9%	24.2%
Load Factor (NCP) %	42.7%	46.4%	47.7%	47.0%	52.6%	58.8%	63.1%	50.6%	46.4%	53.4%	53.7%	51.8%
Load Factor (CP) %	63.9%	73.1%	72.2%	111.6%	126.9%	147.9%	188.8%	143.4%	109.7%	117.1%	91.0%	96.6%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	11,789	12,863	14,954	18,207	24,036	28,006	25,181	24,038	17,608	23,103	18,633	15,052
Ind. Max Demand (kW)	84.97	90.57	94.74	101.25	104.50	116.22	93.96	108.58	95.02	105.46	94.84	85.25
Coincident Demand (kW)	25.27	24.10	28.38	22.35	25.95	25.94	18.27	22.97	21.99	27.02	28.03	20.91

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
164.4	157.6	164.4
140.6	139.4	140.6
163.1	156.7	163.1
Summation Ind Max by Season		
164.4	157.6	164.4
140.6	139.4	140.6
163.1	156.7	163.1
Class Peak by Season		
81.4	78.0	81.4
97.7	82.7	97.7
Coincident Peak by Season		
38.4	41.8	41.8
Energy Summation by Season		
52,166	36,720	88,886
25.7%	27.3%	26.4%
150,576	97,550	248,126
74.3%	72.7%	73.6%
202,742	134,270	337,012
Customer Averages by Season		
1,425	1,463	1,444
Seasonal Factors		
0.234	0.265	0.234
28.1%	19.4%	23.4%
47.4%	37.1%	39.4%
176.7%	103.9%	146.8%
Seasonal Averages		
23,662	15,250	19,456
103.96	91.94	97.95
23.69	24.84	24.26



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service SCHOOL TOU \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	5.6	6.9	6.7	5.6	5.9	4.3	4.8	6.8	6.9	5.8	5.6	7.0
On-Peak	4.0	5.2	5.2	5.5	5.9	4.1	4.7	6.8	6.8	5.8	5.0	6.0
Off-Peak	5.5	6.9	6.6	5.4	5.8	4.1	4.6	6.6	6.7	5.7	5.4	6.9
<b>CLASS PEAK (MW)</b>												
On-Peak	3.7	5.0	4.8	5.1	5.4	3.5	4.3	6.3	6.5	5.6	4.5	5.0
Off-Peak	5.1	6.3	5.9	5.1	5.4	3.4	4.1	6.3	6.4	5.4	4.6	6.3
<b>COINCIDENT (MW)</b>												
System	4.7	6.0	5.2	1.6	3.0	3.5	3.4	4.7	2.5	4.2	2.9	5.9
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1800	1st@1700	5th@1900	20th@0800
<b>ENERGY (MWH)</b>												
On-Peak	390	688	681	683	910	660	526	907	848	866	753	614
%	35.5%	37.8%	38.8%	43.2%	44.9%	37.6%	38.2%	42.1%	40.3%	44.9%	41.9%	34.4%
Off-Peak	709	1,132	1,075	898	1,116	1,096	852	1,247	1,255	1,063	1,044	1,172
%	64.5%	62.2%	61.2%	56.8%	55.1%	62.4%	61.8%	57.9%	59.7%	55.1%	58.1%	65.6%
Total	1,099	1,820	1,756	1,581	2,026	1,756	1,378	2,154	2,103	1,929	1,797	1,786
<b>CUSTOMERS</b>												
Monthly Count	12	17	17	17	17	17	17	17	17	17	17	17
<b>FACTORS</b>												
All load factors are calculated based on 730 hours per month.												
Coincident Factor (CP)	0.842	0.869	0.777	0.287	0.508	0.823	0.710	0.689	0.364	0.720	0.516	0.847
Load Factor (Max) %	27.0%	36.1%	35.9%	38.8%	47.0%	56.5%	39.4%	43.3%	42.0%	45.3%	43.8%	35.1%
Load Factor (NCP) %	29.7%	39.6%	40.7%	42.2%	51.5%	67.8%	43.7%	46.5%	44.2%	47.5%	53.1%	38.8%
Load Factor (CP) %	32.0%	41.6%	46.3%	135.4%	92.5%	68.7%	55.5%	62.8%	115.2%	62.9%	84.9%	41.5%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	91,583	107,059	103,294	93,000	119,176	103,294	81,059	126,706	123,706	113,471	105,706	105,059
Ind. Max Demand (kW)	465.12	405.97	393.88	328.49	347.70	250.24	281.80	401.26	403.65	342.95	330.70	409.64
Coincident Demand (kW)	391.67	352.94	305.88	94.12	176.47	205.88	200.00	276.47	147.06	247.06	170.59	347.06

TOU Periods - All Months:	On-Peak	Off-Peak
	11 am - 9 pm, M-F	9 pm - 11 am, M-F & All Weekends

<b>SUMMER</b> (May-Oct)	<b>WINTER</b> (Nov-Apr)	<b>ANNUAL</b>
Summation Ind Max by Season		
6.9	7.0	7.0
6.8	6.0	6.8
6.7	6.9	6.9
Class Peak by Season		
6.5	5.1	6.5
6.4	6.3	6.4
Coincident Peak by Season		
4.7	6.0	6.0
Energy Summation by Season		
4,717	3,810	8,527
41.6%	38.7%	40.2%
6,629	6,029	12,658
58.4%	61.3%	59.8%
11,346	9,839	21,185
Customer Averages by Season		
17	16	17
Seasonal Factors		
0.685	0.662	0.685
37.7%	32.3%	34.7%
39.8%	35.6%	37.1%
76.2%	38.1%	71.1%
Seasonal Averages		
111,235	100,950	106,093
337.93	388.97	363.45
208.82	277.04	242.93



# Load Research Cost of Service Data Test Year Ended December 31, 2012

\*\*\* General Service E-32 \*\*\*  
0-20 kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	734.9	709.2	765.3	707.2	735.9	823.4	797.2	816.3	833.9	765.4	749.2	817.8
On-Peak	616.0	607.8	673.6	657.5	698.5	762.1	756.9	764.1	720.1	721.0	681.3	700.8
Off-Peak	703.8	670.5	696.9	643.6	653.6	749.3	732.5	768.9	783.5	675.7	658.2	771.2
<b>CLASS PEAK (MW)</b>												
On-Peak	325.3	328.6	314.4	368.1	425.6	508.8	488.8	510.8	471.7	449.9	374.9	349.8
Off-Peak	344.9	339.8	307.9	330.4	374.2	468.6	454.4	463.1	407.8	388.2	312.8	367.8
<b>COINCIDENT (MW)</b>												
System	238.0	227.1	209.2	220.2	309.2	309.9	299.7	307.6	218.4	285.7	219.5	234.3
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800
<b>ENERGY (MWH)</b>												
On-Peak	35,865	40,269	43,283	45,211	56,824	53,951	49,279	59,176	44,981	50,982	43,571	40,564
%	33.0%	34.5%	36.1%	38.8%	43.4%	40.7%	40.1%	41.7%	38.2%	42.3%	38.5%	32.4%
Off-Peak	72,817	76,453	76,615	71,313	74,108	78,607	73,611	82,734	72,770	69,516	69,600	84,634
%	67.0%	65.5%	63.9%	61.2%	56.6%	59.3%	59.9%	58.3%	61.8%	57.7%	61.5%	67.6%
Total	108,682	116,722	119,898	116,524	130,932	132,558	122,890	141,910	117,751	120,478	113,171	125,198
<b>CUSTOMERS</b>												
Monthly Count	102,642	103,478	103,842	102,839	100,735	99,507	98,276	98,098	98,791	100,625	102,945	104,271
<b>FACTORS</b>												
Coincident Factor (CP)	0.324	0.320	0.273	0.311	0.420	0.376	0.376	0.377	0.262	0.373	0.293	0.287
Load Factor (Max) %	20.3%	22.5%	21.5%	22.6%	24.4%	22.1%	21.1%	23.8%	19.3%	21.6%	20.7%	21.0%
Load Factor (NCP) %	43.2%	47.1%	52.2%	43.4%	42.1%	35.8%	34.4%	38.1%	34.2%	36.7%	41.3%	46.6%
Load Factor (CP) %	62.6%	70.4%	78.5%	72.5%	58.0%	58.6%	56.2%	63.2%	73.9%	57.8%	70.6%	73.2%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	1,059	1,128	1,155	1,135	1,300	1,332	1,250	1,447	1,192	1,197	1,099	1,201
Ind. Max Demand (kW)	7.16	6.85	7.37	6.89	7.31	8.28	8.11	8.32	8.44	7.61	7.28	7.84
Coincident Demand (kW)	2.32	2.19	2.01	2.15	3.07	3.11	3.05	3.14	2.21	2.84	2.13	2.25

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
833.9	817.8	833.9

Summation Ind Max by Season		
833.9	817.8	833.9
764.1	700.8	764.1
783.5	771.2	783.5

Class Peak by Season		
510.8	374.9	510.8
468.6	367.8	468.6

Coincident Peak by Season		
309.9	238.0	309.9

Energy Summation by Season		
315,174	248,764	563,938
41.1%	35.5%	38.4%
451,345	451,431	902,776
58.9%	64.5%	61.8%
766,519	700,195	1,466,714

Customer Averages by Season		
99,339	103,303	101,321

Seasonal Factors		
0.372	0.291	0.372
21.0%	19.5%	20.1%
34.3%	42.6%	32.8%
58.4%	68.2%	55.9%

Seasonal Averages		
1,286	1,129	1,208
8.01	7.23	7.62
2.90	2.18	2.54



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-32 \*\*\*  
21-100 kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	442.3	414.2	442.0	548.2	676.6	802.6	837.4	827.7	778.4	651.8	486.4	462.8
On-Peak	394.4	379.4	406.9	522.2	643.7	776.2	805.7	802.2	727.9	627.0	458.6	427.3
Off-Peak	425.1	398.9	421.0	508.6	614.8	749.4	792.2	774.4	741.4	590.3	450.4	447.8

**CLASS PEAK (MW)**

On-Peak	251.9	241.3	264.1	360.3	475.0	589.3	605.5	618.0	550.6	462.1	310.3	262.2
Off-Peak	253.4	239.7	243.1	320.2	418.7	543.9	570.0	573.6	508.7	408.0	269.1	261.3

**COINCIDENT (MW)**

System	203.3	186.0	177.6	221.6	356.1	402.6	415.5	402.7	303.7	335.6	224.3	207.8
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	52,203	54,539	59,226	67,857	94,440	97,032	96,455	117,291	86,748	89,690	67,543	59,235
%	33.8%	35.1%	36.9%	37.1%	40.5%	37.9%	37.3%	39.0%	35.8%	40.0%	37.4%	32.5%
Off-Peak	102,244	100,843	105,749	115,046	138,746	158,989	162,138	183,455	156,926	134,534	113,053	123,027
%	66.2%	64.9%	64.1%	62.9%	59.5%	62.1%	62.7%	61.0%	64.1%	60.0%	62.6%	67.5%
Total	154,447	155,382	164,975	182,903	233,186	256,021	258,593	300,746	243,674	224,224	180,596	182,262

**CUSTOMERS**

Monthly Count	14,912	14,271	14,304	15,654	17,575	19,162	20,237	20,234	20,067	18,266	15,817	14,859
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.460	0.449	0.402	0.404	0.526	0.502	0.496	0.487	0.390	0.515	0.461	0.449
Load Factor (Max) %	47.8%	51.4%	51.1%	45.7%	47.2%	43.7%	42.3%	49.8%	42.9%	47.1%	50.9%	53.9%
Load Factor (NCP) %	83.5%	88.2%	85.6%	69.5%	67.2%	59.5%	58.5%	66.7%	60.6%	66.5%	79.7%	95.2%
Load Factor (CP) %	104.1%	114.4%	127.2%	113.1%	89.7%	87.1%	85.3%	102.3%	109.9%	91.5%	110.3%	120.2%

**CUSTOMER AVERAGES**

Energy Use (kWh)	10,357	10,888	11,533	11,684	13,268	13,361	12,778	14,863	12,143	12,276	11,418	12,266
Ind. Max Demand (kW)	29.66	29.03	30.90	35.02	38.50	41.88	41.38	40.91	38.79	35.69	30.75	31.15
Coincident Demand (kW)	13.63	13.03	12.42	14.16	20.26	21.01	20.53	19.90	15.13	18.37	14.18	13.98

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

837.4	548.2	837.4
805.7	522.2	805.7
792.2	508.6	792.2

Class Peak by Season

618.0	380.3	618.0
573.6	320.2	573.6

Coincident Peak by Season

415.5	224.3	415.5
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Energy Summation by Season

581,656	360,603	942,259
38.4%	35.3%	37.1%
934,788	659,962	1,594,750
61.6%	64.7%	62.9%
1,516,444	1,020,565	2,537,009

Customer Averages by Season

19,257	14,969	17,113
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Seasonal Factors

0.496	0.409	0.496
41.3%	42.5%	34.6%
56.0%	64.7%	46.9%
83.3%	112.1%	69.7%

Seasonal Averages

13,115	11,358	12,236
39.52	31.08	35.30
19.20	13.57	16.38



Load Research Cost of Service Data  
Test Year Ended December 31, 2012  
\*\*\* General Service E-32 \*\*\*  
0- 100 KW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	1,177.2	1,123.5	1,207.3	1,255.3	1,412.5	1,626.0	1,634.6	1,644.0	1,612.3	1,417.2	1,235.6	1,280.6
On-Peak	1,010.4	987.3	1,080.5	1,179.7	1,342.2	1,536.3	1,562.7	1,566.3	1,448.0	1,347.9	1,139.9	1,128.1
Off-Peak	1,128.9	1,069.4	1,117.9	1,152.2	1,268.4	1,496.7	1,524.7	1,533.3	1,524.9	1,266.0	1,108.7	1,218.9

**CLASS PEAK (MW)**

On-Peak Weighted	570.4	564.0	577.1	724.0	899.3	1,095.0	1,091.0	1,113.2	1,018.2	890.7	685.2	606.3
Off-Peak Weighted	595.2	575.4	541.9	650.7	792.9	1,006.8	1,024.5	1,028.3	916.6	777.0	582.0	626.5

**COINCIDENT (MW)**

System	441.3	413.1	386.8	441.8	665.3	712.5	715.2	710.3	522.1	621.3	443.8	442.1
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	88,068	94,808	102,509	113,068	151,265	150,983	145,734	176,467	131,729	140,652	111,114	99,799
%	33.5%	34.8%	36.0%	37.8%	41.5%	38.9%	38.2%	39.9%	36.4%	40.8%	37.8%	32.5%
Off-Peak	175,061	177,296	182,364	186,359	212,853	237,596	235,749	266,189	229,696	204,050	182,653	207,661
%	66.5%	65.2%	64.0%	62.2%	58.5%	61.1%	61.8%	60.1%	63.6%	59.2%	62.2%	67.5%
Total	263,129	272,104	284,873	299,427	364,118	388,579	442,656	442,656	361,425	344,702	293,767	307,460

**CUSTOMERS**

Monthly Count	117,554	117,749	118,146	118,293	118,310	118,669	118,513	118,332	118,858	118,891	118,762	119,130
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All load factors are calculated based on 730 hours per month.

**FACTORS**

Coincident Factor (CP)	0.375	0.368	0.320	0.352	0.471	0.438	0.438	0.432	0.324	0.438	0.359	0.345
Load Factor (Max) %	30.6%	33.2%	32.3%	32.7%	35.3%	32.7%	32.0%	36.9%	30.7%	33.3%	32.6%	32.9%
Load Factor (NCP) %	60.6%	64.8%	67.6%	56.7%	55.5%	48.6%	47.9%	54.5%	48.6%	53.0%	58.7%	67.2%
Load Factor (CP) %	81.7%	90.2%	100.9%	92.8%	75.0%	74.7%	73.1%	85.4%	94.8%	76.0%	90.7%	95.3%

**CUSTOMER AVERAGES**

Energy Use (kWh)	2,238	2,311	2,411	2,531	3,078	3,274	3,219	3,741	3,041	2,899	2,474	2,581
Ind. Max Demand (kW)	10.01	9.54	10.22	10.61	11.94	13.70	13.79	13.89	13.57	11.92	10.40	10.75
Coincident Demand (kW)	3.75	3.51	3.27	3.73	5.62	6.00	6.03	6.00	4.39	5.23	3.74	3.71

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

1,644.0	1,280.6	1,644.0
1,566.3	1,179.7	1,566.3
1,533.3	1,218.9	1,533.3

Class Peak by Season

1,113.2	724.0	1,113.2
1,028.3	650.7	1,028.3

Coincident Peak by Season

715.2	443.8	715.2
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Energy Summation by Season

896,830	609,367	1,506,197
39.3%	35.4%	37.6%
1,386,133	1,111,393	2,497,526
60.7%	64.6%	62.4%
2,282,963	1,720,760	4,003,723

Customer Averages by Season

118,595	118,272	118,434
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Seasonal Factors

0.435	0.347	0.435
31.7%	30.7%	27.8%
46.8%	54.3%	41.1%
72.9%	88.9%	63.9%

Seasonal Averages

3,209	2,424	2,817
13.14	10.26	11.70
5.55	3.62	4.58



Load Research Cost of Service Data  
Test Year Ended December 31, 2012  
\*\*\* General Service E-32 \*\*\*  
101-400 kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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SUMMATION IND MAX (MW)												
Non-Timed	674.7	658.3	692.7	774.3	819.9	834.6	838.8	944.8	850.7	794.3	699.9	675.1
On-Peak	615.5	616.4	658.0	749.7	810.2	808.8	819.1	929.6	824.9	779.9	682.6	633.5
Off-Peak	658.0	639.9	667.2	738.3	760.2	788.9	802.1	896.9	816.3	734.9	656.3	654.0

CLASS PEAK (MW)												
On-Peak	465.4	459.0	506.1	604.1	658.3	663.7	658.3	772.6	687.0	636.9	538.8	478.8
Off-Peak	489.2	466.0	475.6	558.8	606.8	628.2	634.4	730.8	657.9	589.3	487.4	472.8

COINCIDENT (MW)												
System	405.3	386.8	362.9	360.1	513.4	514.5	506.8	572.4	406.1	492.4	394.1	398.4
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

ENERGY (MWH)												
On-Peak	69,930	81,404	86,827	95,058	120,547	111,776	105,604	132,297	101,046	109,156	90,303	81,646
%	33.9%	35.1%	35.6%	36.9%	39.8%	36.8%	36.4%	38.7%	35.5%	39.4%	37.1%	32.4%
Off-Peak	136,352	150,517	157,070	162,553	182,335	191,964	184,518	209,555	183,590	167,890	153,102	170,347
%	66.1%	64.9%	64.4%	63.1%	60.2%	63.2%	63.6%	61.3%	64.5%	60.6%	62.9%	67.6%
Total	206,282	231,921	243,897	257,611	302,882	303,740	290,122	341,852	284,636	277,046	243,405	251,993

CUSTOMERS												
Monthly Count	4,262	4,349	4,297	4,282	4,276	4,226	4,232	4,314	4,270	4,292	4,299	4,273

FACTORS												
Coincident Factor (CP)	0.601	0.588	0.524	0.465	0.626	0.616	0.604	0.606	0.477	0.620	0.563	0.590
Load Factor (Max) %	41.9%	48.3%	48.2%	45.6%	50.6%	49.9%	47.4%	49.6%	45.8%	47.8%	47.6%	51.1%
Load Factor (NCP) %	57.8%	68.2%	66.0%	58.4%	63.0%	62.7%	60.4%	60.6%	59.4%	59.4%	61.9%	72.1%
Load Factor (CP) %	69.7%	82.1%	92.1%	98.0%	80.8%	80.9%	78.4%	81.8%	96.0%	77.1%	84.6%	86.6%

CUSTOMER AVERAGES												
Energy Use (kWh)	48,401	53,323	56,765	60,156	70,833	71,880	68,547	79,242	66,659	64,549	56,620	58,970
Ind. Max Demand (kW)	158.31	151.35	161.23	180.80	191.75	197.50	198.18	219.01	199.21	185.06	162.81	157.98
Coincident Demand (kW)	95.10	88.93	84.46	84.09	120.07	121.76	119.74	132.68	95.10	114.72	91.67	93.23

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season		
944.8	774.3	944.8
929.6	749.7	929.6
896.9	738.3	896.9

Class Peak by Season		
772.6	604.1	772.6
730.8	558.8	730.8

Coincident Peak by Season		
572.4	405.3	572.4

Energy Summation by Season		
680,426	505,169	1,185,595
37.8%	35.2%	36.6%
1,119,852	929,940	2,049,792
62.2%	64.8%	63.4%
1,800,278	1,435,109	3,235,387

Customer Averages by Season		
4,268	4,294	4,281

Seasonal Factors		
0.606	0.523	0.606
43.5%	42.3%	39.1%
53.2%	54.2%	47.8%
81.1%	82.2%	72.9%

Seasonal Averages		
70,285	55,706	62,995
198.45	162.08	180.26
117.35	89.58	103.46



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-32 \*\*\*  
401-999 kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	442.3	427.8	458.8	482.5	496.5	502.5	498.5	549.4	509.3	478.7	446.8	426.2
On-Peak	420.8	409.7	442.1	469.1	489.9	489.5	489.5	540.3	497.1	473.1	437.9	401.7
Off-Peak	432.0	417.3	445.8	467.9	474.0	485.7	486.0	534.7	498.1	452.6	430.5	414.6
<b>CLASS PEAK (MW)</b>												
On-Peak	341.7	333.3	357.8	401.3	419.4	418.0	417.1	459.9	433.9	394.5	366.0	330.9
Off-Peak	335.9	324.3	346.3	381.8	401.8	403.1	408.9	446.5	422.4	372.6	345.0	319.4
<b>COINCIDENT (MW)</b>												
System	294.0	283.0	278.5	270.6	353.6	350.8	333.8	377.6	274.8	331.3	302.9	267.0
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800
<b>ENERGY (MWH)</b>												
On-Peak	53,830	58,992	62,228	63,441	79,094	70,006	63,397	79,667	59,666	68,995	62,454	56,639
%	33.8%	34.8%	34.5%	34.6%	37.0%	34.7%	34.3%	35.9%	32.7%	36.6%	35.3%	31.4%
Off-Peak	105,431	110,524	118,143	119,915	134,674	131,740	121,435	142,248	122,800	119,515	114,470	123,741
%	66.2%	65.2%	65.5%	65.4%	63.0%	65.3%	65.7%	64.1%	67.3%	63.4%	64.7%	68.6%
Total	159,261	169,516	180,371	183,356	213,768	201,746	184,832	221,915	182,466	188,510	176,924	180,380
<b>CUSTOMERS</b>												
Monthly Count	882	858	867	852	841	806	789	832	809	808	837	820
<b>FACTORS</b>												
Coincident Factor (CP)	0.665	0.661	0.607	0.561	0.712	0.698	0.670	0.687	0.540	0.692	0.678	0.626
Load Factor (Max) %	49.3%	54.3%	53.9%	52.1%	59.0%	55.0%	50.8%	55.3%	49.1%	53.9%	54.2%	58.0%
Load Factor (NCP) %	63.8%	69.7%	69.1%	62.6%	69.8%	66.1%	60.7%	66.1%	57.6%	65.5%	66.2%	74.7%
Load Factor (CP) %	74.2%	82.1%	88.7%	92.8%	82.8%	78.8%	75.9%	80.5%	91.0%	77.9%	80.0%	92.5%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	180,466	197,614	208,073	215,269	254,080	250,434	234,171	266,725	225,467	233,172	211,420	219,963
Ind. Max Demand (kW)	501.15	498.73	529.30	566.52	590.18	623.78	631.55	660.31	629.27	592.10	533.90	519.74
Coincident Demand (kW)	333.15	329.91	321.27	317.70	420.28	435.46	422.90	453.85	339.56	409.79	361.96	325.59

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
549.4	482.6	549.4

Summation Ind Max by Season		
549.4	482.6	549.4
540.3	469.1	540.3
534.7	467.9	534.7

Class Peak by Season		
459.9	401.3	459.9
446.5	381.8	446.5

Coincident Peak by Season		
377.6	302.9	377.6

Energy Summation by Season		
420,826	357,684	778,410
35.3%	34.1%	34.7%

772,411	692,224	1,464,635
64.7%	65.9%	65.3%
1,193,237	1,049,808	2,243,045

Customer Averages by Season		
814	853	833

Seasonal Factors		
0.687	0.628	0.687
49.5%	49.7%	46.6%
59.2%	59.7%	55.7%
81.6%	89.8%	76.7%

Seasonal Averages		
244,008	205,468	224,738
621.20	524.89	573.05
413.64	331.60	372.62



# Load Research Cost of Service Data Test Year Ended December 31, 2012

\*\*\* General Service E-32 \*\*\*  
1001+ kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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## SUMMATION IND MAX (MW)

Non-Timed	139.1	137.3	153.8	195.1	204.2	219.2	262.5	270.8	258.8	193.3	164.3	144.4
On-Peak	132.6	133.5	150.3	190.6	200.9	216.7	257.5	263.2	250.6	191.0	162.1	140.4
Off-Peak	135.3	133.6	145.8	189.5	195.7	212.4	257.6	264.1	253.4	184.4	158.4	139.9

## CLASS PEAK (MW)

On-Peak	111.0	111.3	123.3	166.9	171.0	189.9	220.6	230.9	224.9	165.2	139.5	119.0
Off-Peak	110.5	109.7	118.5	161.1	164.7	183.9	219.4	224.9	218.8	156.7	134.0	115.2

## COINCIDENT (MW)

System	107.7	108.4	108.4	131.3	160.9	187.0	212.0	220.4	171.4	161.4	120.6	111.3
Time	13h@0800	15h@0800	8h@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

## ENERGY (MWH)

On-Peak	23,838	30,342	32,146	41,672	40,998	40,165	42,462	53,208	45,817	34,952	34,412	32,016
%	33.2%	33.9%	33.7%	34.1%	35.9%	33.8%	33.7%	35.2%	32.0%	36.0%	34.9%	31.4%
Off-Peak	47,963	59,161	63,242	80,533	73,202	78,665	83,537	97,950	97,360	62,138	64,190	69,945
%	66.8%	66.1%	66.3%	65.9%	64.1%	66.2%	66.3%	64.8%	68.0%	64.0%	65.1%	68.6%
Total	71,801	89,503	95,388	122,205	114,200	118,830	125,999	151,158	143,177	97,090	98,602	101,961

## CUSTOMERS

Monthly Count	121	123	127	150	148	152	178	179	178	147	136	126
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All load factors are calculated based on 730 hours per month.

## FACTORS

Coincident Factor (CP)	0.774	0.790	0.705	0.673	0.788	0.853	0.808	0.814	0.662	0.835	0.734	0.771
Load Factor (Max) %	70.7%	89.3%	85.0%	85.8%	76.6%	74.3%	65.7%	76.5%	75.8%	68.8%	82.2%	96.7%
Load Factor (NCP) %	88.6%	110.2%	106.0%	100.3%	91.5%	85.7%	78.3%	89.7%	87.2%	80.5%	96.8%	117.4%
Load Factor (CP) %	91.3%	113.1%	120.5%	127.5%	97.2%	87.0%	81.4%	93.9%	114.4%	82.4%	112.0%	125.5%

## CUSTOMER AVERAGES

Energy Use (kWh)	594,203	730,371	751,355	816,486	769,169	779,411	708,984	844,458	806,630	660,106	727,602	809,170
Ind. Max Demand (kW)	1,151.08	1,120.09	1,211.53	1,303.62	1,375.59	1,437.88	1,477.24	1,512.93	1,458.07	1,314.30	1,212.35	1,146.13
Coincident Demand (kW)	891.29	884.58	853.85	877.25	1,083.71	1,226.54	1,192.90	1,231.28	965.63	1,097.34	889.93	883.28

TOU Periods	TOU Periods - All Months:	On-Peak	Off-Peak
		11 am - 9 pm, M-F	9 pm - 11 am, M-F & All Weekends

SUMMER	WINTER	ANNUAL
(May-Oct)	(Nov-Apr)	

Summation Ind Max by Season		
270.8	195.1	270.8
263.2	190.6	263.2
264.1	189.5	264.1

Class Peak by Season		
230.9	166.9	230.9
224.9	161.1	224.9

Coincident Peak by Season		
220.4	131.3	220.4

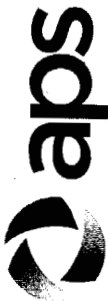
Energy Summation by Season		
257,801	194,425	452,026
34.3%	33.6%	34.0%
492,853	385,035	877,888
66.7%	66.4%	66.0%
750,454	579,460	1,329,914

Customer Averages by Season		
164	130	147

Seasonal Factors		
0.814	0.673	0.814
63.3%	67.8%	56.1%
74.2%	79.3%	65.8%
80.8%	118.9%	71.6%

Seasonal Averages		
761,460	738,198	749,829
1,429.33	1,190.80	1,310.07
1,132.90	880.03	1,006.47





Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-32 \*\*\*  
401+ kW

SUMMATION IND MAX (MW)												
Non-Timed	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
On-Peak	581.4	565.1	612.6	677.7	700.8	721.7	761.0	820.2	766.1	672.0	611.1	570.6
Off-Peak	553.4	543.2	592.3	659.7	690.7	706.3	746.9	803.4	747.8	664.1	600.0	542.1
Off-Peak	567.3	550.9	591.7	657.4	689.6	698.1	743.6	798.7	751.5	637.1	588.9	554.5
CLASS PEAK (MW)												
On-Peak Weighted	450.0	444.2	480.8	568.0	589.7	605.6	636.7	687.6	658.7	559.3	505.4	449.4
Off-Peak Weighted	445.8	433.9	464.1	543.8	565.6	585.0	628.5	670.7	641.7	529.0	478.2	433.0
COINCIDENT (MW)												
System	401.7	391.4	386.9	401.9	514.5	537.8	545.8	598.0	446.2	492.7	423.5	378.3
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800
ENERGY (MWH)												
On-Peak	77.668	89.333	94.374	105.113	120.092	110.170	105.859	132.875	105.483	103.947	96.866	88.655
%	33.6%	34.5%	34.2%	34.4%	36.6%	34.4%	34.1%	35.6%	32.4%	36.4%	35.2%	31.4%
Off-Peak	153.394	169.686	181.385	200.448	207.876	210.406	204.972	240.198	220.160	181.653	178.660	193.686
%	66.4%	65.5%	65.8%	65.6%	63.4%	65.6%	65.9%	64.4%	67.6%	63.6%	64.8%	68.6%
Total	231.062	259.019	275.759	305.561	327.968	320.576	310.831	373.073	325.643	285.600	275.526	282.341
CUSTOMERS												
Monthly Count	1,003	980	994	1,001	990	958	967	1,011	987	956	972	946
FACTORS												
All load factors are calculated based on 730 hours per month.												
Coincident Factor (CP)	0.691	0.693	0.632	0.593	0.734	0.745	0.717	0.729	0.581	0.733	0.693	0.663
Load Factor (Max) %	54.4%	62.8%	61.7%	61.8%	64.1%	60.8%	56.0%	62.3%	58.1%	58.2%	61.8%	67.8%
Load Factor (NCP) %	70.3%	79.9%	78.6%	73.7%	76.2%	72.5%	66.9%	74.3%	67.7%	70.0%	74.7%	86.1%
Load Factor (CP) %	78.8%	90.7%	97.6%	104.1%	87.3%	81.7%	78.0%	85.5%	100.0%	79.4%	89.1%	102.2%
CUSTOMER AVERAGES												
Energy Use (kWh)	230,294	264,209	277,475	305,127	331,344	334,614	321,431	369,014	330,005	298,888	283,360	298,441
Ind. Max Demand (kW)	579.43	576.40	616.45	676.69	707.99	753.33	786.97	811.26	778.36	703.26	628.45	603.17
Coincident Demand (kW)	400.37	399.24	389.31	401.33	519.80	561.35	564.41	591.49	452.18	515.62	435.54	399.87

TOU Periods - All Months:		
On-Peak	On-Peak	Off-Peak
11 am - 9 pm, M-F	9 pm - 11 am, M-F & All Weekends	

SUMMER	WINTER	ANNUAL
(May-Oct)	(Nov-Apr)	
Summation Ind Max by Season		
820.2	677.7	820.2
803.4	659.7	803.4
798.7	657.4	798.7
Class Peak by Season		
687.6	568.0	687.6
670.7	543.8	670.7
Coincident Peak by Season		
598.0	423.5	598.0
Energy Summation by Season		
678,427	552,009	1,230,436
34.9%	33.9%	34.4%
1,265,264	1,077,259	2,342,523
65.1%	66.1%	65.6%
1,943,691	1,629,268	3,572,959
Customer Averages by Season		
978	983	980
Seasonal Factors		
0.729	0.625	0.729
54.1%	54.9%	49.7%
64.5%	65.5%	59.3%
81.3%	98.3%	74.7%
Seasonal Averages		
330,883	276,484	303,683
756.86	613.43	685.15
534.14	404.28	469.21



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* Total General Service E-30 & E-32 \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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SUMMATION IND MAX (MW)												
Non-Timed	2,433.3	2,346.8	2,512.6	2,707.2	2,933.1	3,182.3	3,234.4	3,409.0	3,231.0	2,883.5	2,546.6	2,526.4
On-Peak	2,179.3	2,146.9	2,330.9	2,589.1	2,843.2	3,053.3	3,128.7	3,299.4	3,020.7	2,791.9	2,422.5	2,303.7
Off-Peak	2,354.2	2,260.3	2,376.8	2,547.9	2,698.2	2,985.7	3,070.4	3,228.9	3,092.8	2,638.0	2,355.9	2,427.5

CLASS PEAK (MW)												
On-Peak Weighted	1,473.2	1,454.2	1,556.5	1,895.2	2,144.0	2,359.1	2,385.9	2,561.7	2,357.4	2,083.6	1,726.7	1,505.6
Off-Peak Weighted	1,518.2	1,463.6	1,456.5	1,753.2	1,965.3	2,202.6	2,287.3	2,422.9	2,210.8	1,888.9	1,538.7	1,506.8

COINCIDENT (MW)												
System	1,248.3	1,191.3	1,136.6	1,203.8	1,693.2	1,764.8	1,767.8	1,880.7	1,374.4	1,606.4	1,261.4	1,218.8
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

ENERGY (MWH)												
On-Peak	235,666	265,546	283,710	313,240	391,904	372,930	357,198	441,639	338,258	353,755	298,283	270,100
%	33.6%	34.8%	35.3%	36.3%	39.4%	36.8%	36.4%	38.2%	34.8%	39.0%	36.7%	32.1%
Off-Peak	464,807	497,498	520,819	549,359	603,064	639,965	625,238	715,942	633,446	553,593	514,415	571,694
%	66.4%	65.2%	64.7%	63.7%	60.6%	63.2%	63.6%	61.8%	65.2%	61.0%	63.3%	67.9%
Total	700,473	763,044	804,529	862,599	994,968	1,012,895	982,436	1,157,581	971,704	907,348	812,698	841,794

CUSTOMERS												
Monthly Count	122,820	123,078	123,437	123,576	123,576	123,853	123,712	123,657	124,114	124,138	124,033	124,349

FACTORS												
All load factors are calculated based on 730 hours per month.												
Coincident Factor (CP)	0.513	0.508	0.452	0.445	0.577	0.555	0.547	0.552	0.425	0.557	0.495	0.482
Load Factor (Max) %	39.4%	44.5%	43.9%	43.6%	46.5%	43.6%	41.6%	46.5%	41.2%	43.1%	43.7%	45.6%
Load Factor (NCP) %	63.2%	71.4%	70.8%	62.3%	63.6%	58.8%	56.4%	61.9%	56.5%	59.7%	64.5%	76.5%
Load Factor (CP) %	76.9%	87.7%	97.0%	98.2%	80.5%	78.6%	76.1%	84.3%	96.8%	77.4%	88.3%	94.6%

CUSTOMER AVERAGES												
Energy Use (kWh)	5,703	6,200	6,518	6,980	8,051	8,178	7,941	9,361	7,829	7,309	6,552	6,770
Ind. Max Demand (kW)	19.81	19.07	20.36	21.91	23.74	25.69	26.14	27.57	26.03	23.23	20.53	20.32
Coincident Demand (kW)	10.16	9.68	9.21	9.74	13.70	14.25	14.29	15.21	11.07	12.94	10.17	9.80

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season		
3,409.0	2,707.2	3,409.0
3,299.4	2,589.1	3,299.4
3,228.9	2,547.9	3,228.9

Class Peak by Season		
2,561.7	1,895.2	2,561.7
2,422.9	1,753.2	2,422.9

Coincident Peak by Season		
1,880.7	1,261.4	1,880.7

Energy Summation by Season		
2,255,683	1,666,545	3,922,228
37.4%	34.8%	36.3%

3,771,249	3,118,592	6,889,841
62.6%	65.2%	63.7%
6,026,932	4,785,137	10,812,069

Customer Averages by Season		
123,842	123,549	123,695

Seasonal Factors		
0.552	0.466	0.552
40.4%	40.4%	36.2%
53.7%	57.8%	48.2%
77.8%	89.6%	69.8%

Seasonal Averages		
8,112	6,454	7,283
25.40	20.33	22.87
13.58	9.79	11.69



Load Research Cost of Service Data  
Test Year Ended December 31, 2012  
\*\*\* General Service E-32TOU \*\*\*  
0-20 kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	0.9	0.9	0.9	0.9	0.9	1.0	0.9	1.0	1.5	1.0	1.2	1.1	1.0
On-Peak	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.9	1.4	1.0	1.1	1.0	0.9
Off-Peak	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.0	1.1	1.1	0.9

**CLASS PEAK (MW)**

On-Peak	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	1.1	0.8	0.9	0.8	0.7
Off-Peak	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	1.1	0.8	0.9	0.8	0.7

**COINCIDENT (MW)**

System Time	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.4	0.7	0.4
13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800		

**ENERGY (MWH)**

On-Peak	78	92	86	92	109	95	89	132	74	114	94	83	
%	24.3%	24.5%	24.4%	25.3%	28.6%	27.4%	26.9%	28.6%	25.7%	28.7%	26.7%	23.4%	
Off-Peak	245	285	266	272	273	251	243	330	213	284	258	270	
%	75.7%	75.5%	75.6%	74.7%	71.4%	72.6%	73.1%	71.4%	74.3%	71.3%	73.3%	76.6%	
Total	323	377	352	364	382	346	332	462	287	396	352	353	

**CUSTOMERS**

Monthly Count	156	159	148	160	146	133	145	214	160	195	197	178	
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.442	0.325	0.230	0.319	0.314	0.332	0.313	0.336	0.286	0.345	0.643	0.416	
Load Factor (Max) %	48.9%	55.9%	55.5%	52.9%	54.8%	52.4%	47.4%	42.5%	37.5%	47.0%	44.3%	50.2%	
Load Factor (NCP) %	67.7%	76.2%	75.8%	70.4%	74.7%	71.3%	62.5%	57.8%	50.5%	59.9%	58.5%	67.1%	
Load Factor (CP) %	110.6%	172.1%	241.1%	166.2%	174.4%	158.0%	151.6%	126.6%	131.1%	136.3%	68.9%	120.9%	

**CUSTOMER AVERAGES**

Energy Use (kWh)	2,077	2,369	2,382	2,282	2,625	2,606	2,290	2,162	1,789	2,036	1,788	1,983	
Ind. Max Demand (kW)	5.82	5.81	5.88	5.90	6.57	6.81	6.62	6.97	6.54	5.93	5.53	5.41	
Coincident Demand (kW)	2.57	1.88	1.35	1.88	2.06	2.26	2.07	2.34	1.87	2.05	3.56	2.25	

TOU Periods - All Months:	On-Peak	Off-Peak
	11 am - 9 pm, M-F	9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season		
1.5	1.1	1.5
1.4	1.0	1.4
1.4	1.1	1.4

Class Peak by Season		
1.1	0.8	1.1
1.1	0.8	1.1

Coincident Peak by Season		
0.5	0.7	0.7

Energy Summation by Season		
613	525	1,139
27.8%	24.8%	26.3%
1,594	1,586	3,189
72.2%	75.2%	73.7%
2,207	2,121	4,328

Customer Averages by Season		
165	166	166

Seasonal Factors		
0.336	0.643	0.336
33.8%	44.5%	33.2%
46.0%	58.8%	45.1%
168.0%	121.1%	164.7%

Seasonal Averages		
2,251	2,147	2,199
6.57	5.73	6.15
2.11	2.25	2.18



Load Research Cost of Service Data  
Test Year Ended December 31, 2012  
\*\*\* General Service E-32TOU \*\*\*  
21-100 KW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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SUMMATION IND MAX (MW)												
Non-Lined	6.7	5.5	6.1	6.5	7.2	6.6	6.0	6.9	6.6	6.0	5.3	4.7

On-Peak	6.1	5.1	5.6	6.0	6.9	6.2	5.6	6.4	5.9	5.7	4.9	4.3
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Off-Peak	6.5	5.4	6.0	6.5	6.9	6.4	5.8	6.7	6.5	5.6	5.1	4.5
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CLASS PEAK (MW)												
On-Peak	4.3	3.5	4.0	4.1	4.5	4.7	4.1	4.9	4.3	4.1	3.4	3.1

Off-Peak	4.2	3.3	3.8	4.0	4.4	4.6	4.0	4.6	4.4	3.8	3.3	3.1
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COINCIDENT (MW)												
System	3.3	2.3	2.3	2.8	3.3	3.1	2.7	3.1	2.8	2.7	3.1	2.3
Time	13h@0800	15h@0800	8h@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

ENERGY (MWH)												
On-Peak	911	779	937	1,000	1,156	1,130	1,049	1,196	893	1,051	908	792
%	30.0%	30.6%	30.7%	31.8%	34.1%	31.8%	31.6%	33.1%	29.7%	33.1%	31.5%	27.8%

Off-Peak	2,125	1,766	2,116	2,146	2,233	2,423	2,270	2,416	2,115	2,123	1,973	2,057
%	70.0%	69.4%	69.3%	68.2%	65.9%	68.2%	68.4%	66.9%	70.3%	66.9%	68.5%	72.2%

Total	3,035	2,545	3,053	3,146	3,389	3,553	3,319	3,612	3,008	3,174	2,881	2,849
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CUSTOMERS												
Monthly Count	176	145	155	155	165	150	137	156	154	153	143	135

All load factors are calculated based on 730 hours per month.

FACTORS												
Coincident Factor (CP)	0.491	0.415	0.379	0.428	0.459	0.467	0.449	0.448	0.426	0.453	0.583	0.492

Load Factor (Max) %	61.9%	62.9%	68.9%	66.0%	64.6%	73.3%	75.5%	71.4%	62.7%	72.9%	74.3%	83.5%
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Load Factor (NCP) %	97.4%	100.9%	105.1%	104.8%	102.7%	103.9%	110.3%	101.6%	94.1%	106.8%	116.8%	124.4%
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Load Factor (CP) %	126.0%	151.6%	181.8%	153.9%	140.7%	157.0%	168.4%	159.6%	147.2%	161.0%	127.3%	169.7%
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CUSTOMER AVERAGES												
Energy Use (kWh)	17,215	17,519	19,732	20,350	20,502	23,764	24,224	23,170	19,477	20,744	20,086	21,103

Ind. Max Demand (kW)	38.11	38.14	39.24	42.27	43.47	44.40	43.94	44.43	42.57	38.99	37.04	34.62
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Coincident Demand (kW)	18.72	15.83	14.86	18.11	19.96	20.73	19.71	19.89	18.13	17.65	21.61	17.04
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TOU Periods - All Months: On-Peak 11 am - 11 am, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

7.2	6.7	7.2
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6.9	6.1	6.9
-----	-----	-----

6.9	6.5	6.9
-----	-----	-----

Class Peak by Season

4.9	4.3	4.9
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4.6	4.2	4.6
-----	-----	-----

Coincident Peak by Season

3.3	3.3	3.3
-----	-----	-----

Energy Summation by Season

6,474	5,327	11,800
32.3%	30.4%	31.4%

13,581	12,182	25,764
67.7%	69.6%	68.6%

20,055	17,509	37,564
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Customer Averages by Season

153	152	152
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Seasonal Factors

0.453	0.491	0.453
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63.7%	59.5%	59.7%
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94.0%	93.6%	88.1%
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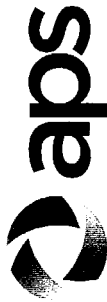
169.6%	173.8%	158.8%
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Seasonal Averages

21,980	19,334	20,657
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42.97	38.24	40.60
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19.34	17.70	18.52
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Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-32TOU \*\*\*  
0-100 kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	7.6	6.5	6.9	7.5	8.1	7.5	7.0	8.4	7.6	7.1	6.4	5.6
On-Peak	6.9	5.9	6.4	6.9	7.8	7.1	6.5	7.8	6.9	6.8	5.9	5.2
Off-Peak	7.4	6.4	6.8	7.4	7.8	7.3	6.8	8.2	7.5	6.7	6.1	5.5

**CLASS PEAK (MW)**

On-Peak Weighted	4.9	4.0	4.5	4.8	5.2	5.3	4.8	5.9	5.1	5.0	4.2	3.7
Off-Peak Weighted	4.8	4.0	4.4	4.8	5.1	5.3	4.7	5.7	5.1	4.6	4.1	3.8

**COINCIDENT (MW)**

System	3.7	2.6	2.5	3.1	3.6	3.4	3.0	3.6	3.1	3.1	3.8	2.7
Time	13h@0800	15h@0800	8h@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	989	871	1,023	1,093	1,265	1,225	1,138	1,328	967	1,165	1,001	875
%	29.5%	29.8%	30.0%	31.1%	33.5%	31.4%	31.2%	32.6%	29.4%	32.6%	31.0%	27.3%
Off-Peak	2,369	2,051	2,382	2,417	2,506	2,674	2,513	2,746	2,328	2,407	2,232	2,327
%	70.5%	70.2%	70.0%	68.9%	66.5%	68.6%	68.8%	67.4%	70.6%	67.4%	69.0%	72.7%
Total	3,358	2,922	3,405	3,510	3,771	3,899	3,651	4,074	3,295	3,572	3,233	3,202

**CUSTOMERS**

Monthly Count	332	304	303	314	311	282	282	370	315	348	340	313
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CF)	0.485	0.402	0.360	0.415	0.442	0.451	0.430	0.428	0.407	0.435	0.594	0.479
Load Factor (Max) %	60.3%	61.9%	67.2%	64.3%	63.5%	70.8%	71.7%	66.3%	59.2%	68.7%	69.2%	77.8%
Load Factor (NCP) %	94.7%	99.4%	103.7%	100.5%	99.0%	100.8%	103.3%	94.6%	88.0%	98.3%	106.2%	115.8%
Load Factor (CP) %	124.3%	154.0%	186.6%	155.1%	143.5%	157.1%	166.7%	155.0%	145.6%	157.8%	116.5%	162.5%

**CUSTOMER AVERAGES**

Energy Use (kWh)	10,120	9,600	11,256	11,174	12,133	13,812	12,948	11,022	10,464	10,251	9,501	10,229
Ind. Max Demand (kW)	22.98	21.24	22.94	23.80	26.19	26.72	24.75	22.77	24.21	20.45	18.81	18.01
Coincident Demand (kW)	11.15	8.54	8.26	9.87	11.58	12.04	10.64	9.74	9.84	8.90	11.17	8.63

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

8.4	7.6	8.4
7.8	6.9	7.8
8.2	7.4	8.2

Class Peak by Season

5.9	4.9	5.9
5.7	4.8	5.7

Coincident Peak by Season

3.6	3.8	3.8
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Energy Summation by Season

7,087	5,852	12,939
31.8%	29.8%	30.9%
15,175	13,778	28,953
68.2%	70.2%	69.1%
22,262	19,630	41,892

Customer Averages by Season

318	318	318
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Seasonal Factors

0.428	0.498	0.428
60.4%	58.8%	56.8%
86.1%	92.3%	81.1%
169.4%	166.0%	159.4%

Seasonal Averages

11,772	10,313	11,043
24.18	21.30	22.74
10.46	9.60	10.03



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-32TOU \*\*\*  
101-400 kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	16.1	14.9	15.5	18.3	17.3	16.5	17.6	23.5	17.5	17.4	16.7	15.3
On-Peak	13.8	12.8	12.9	16.6	15.9	14.7	15.2	20.6	15.0	15.3	14.5	12.5
Off-Peak	15.9	14.8	15.3	18.2	16.7	16.0	17.2	23.0	17.3	16.5	16.3	15.1

**CLASS PEAK (MW)**

On-Peak	10.7	10.3	10.4	13.2	12.3	12.4	12.0	16.2	12.9	12.6	11.5	9.6
Off-Peak	11.9	11.4	11.4	13.5	13.3	12.9	12.1	16.2	13.0	13.1	12.2	11.4

**COINCIDENT (MW)**

System	8.4	6.7	6.7	9.6	7.9	8.1	7.1	9.0	8.0	7.6	8.5	8.5
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	1,310	1,663	1,638	1,940	2,373	2,092	2,028	2,844	1,710	2,108	1,896	1,536
%	29.9%	29.7%	30.5%	29.1%	31.3%	31.4%	30.6%	32.7%	29.2%	32.5%	31.2%	28.1%
Off-Peak	3,070	3,937	3,734	4,727	5,210	4,572	4,600	5,854	4,145	4,379	4,180	3,930
%	70.1%	70.3%	69.5%	70.9%	68.7%	68.6%	69.4%	67.3%	70.8%	67.5%	68.8%	71.9%
Total	4,380	5,600	5,372	6,667	7,583	6,664	6,628	8,698	5,855	6,487	6,076	5,466

**CUSTOMERS**

Monthly Count	80	74	74	81	76	67	69	96	74	78	81	72
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All load factors are calculated based on 730 hours per month.

**FACTORS**

Coincident Factor (CP)	0.521	0.449	0.432	0.524	0.457	0.492	0.404	0.382	0.458	0.437	0.508	0.557
Load Factor (Max) %	37.2%	51.4%	47.5%	49.9%	60.1%	55.4%	51.7%	50.6%	45.9%	51.1%	49.7%	49.0%
Load Factor (NCP) %	50.3%	67.4%	64.7%	67.8%	78.2%	71.0%	74.8%	73.3%	61.9%	67.9%	68.0%	65.4%
Load Factor (CP) %	71.4%	114.5%	109.8%	95.1%	131.5%	112.7%	127.9%	132.4%	100.3%	116.9%	97.9%	88.1%

**CUSTOMER AVERAGES**

Energy Use (kWh)	54,595	75,553	72,216	82,570	99,494	99,632	95,369	90,525	78,899	83,184	74,909	75,912
Ind. Max Demand (kW)	201.10	201.44	208.38	226.78	226.83	246.16	252.87	244.93	235.43	223.02	206.49	212.05
Coincident Demand (kW)	104.70	90.39	90.07	118.89	103.65	121.10	102.16	93.67	107.80	97.46	104.79	118.05

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

23.5	18.3	23.5
20.6	16.6	20.6
23.0	18.2	23.0

Class Peak by Season

16.2	13.2	16.2
16.2	13.5	16.2

Coincident Peak by Season

9.0	9.6	9.6
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Energy Summation by Season

13,156	9,983	23,139
31.4%	29.7%	30.7%
28,759	23,578	52,337
68.6%	70.3%	69.3%
41,915	33,561	75,476

Customer Averages by Season

77	77	77
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Seasonal Factors

0.382	0.524	0.382
40.7%	41.8%	36.6%
58.9%	56.9%	53.0%
134.8%	90.1%	121.4%

Seasonal Averages

91,184	72,558	81,905
238.21	209.37	223.79
104.31	104.48	104.40



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-32TOU \*\*\*  
401-999 kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	26.5	21.1	20.9	23.8	23.3	20.9	23.3	24.9	21.1	20.0	19.7	18.4
On-Peak	24.3	19.6	19.6	22.7	22.3	19.5	21.9	23.1	19.6	18.6	18.3	17.0
Off-Peak	25.8	20.8	20.4	23.1	22.5	20.3	22.9	24.4	20.8	19.4	19.1	18.1

**CLASS PEAK (MW)**

On-Peak	21.4	17.0	17.7	20.8	20.6	17.7	19.8	21.7	18.2	16.8	15.8	14.4
Off-Peak	20.8	16.9	17.3	20.5	20.2	17.5	19.8	21.6	18.5	17.0	15.6	14.7

**COINCIDENT (MW)**

System	15.7	12.9	12.0	11.3	15.5	11.6	12.5	16.0	9.4	13.1	13.2	11.1
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	2,882	2,885	3,284	3,345	3,779	3,038	2,904	3,715	2,439	3,095	3,089	2,868
%	32.6%	33.4%	33.4%	33.8%	35.6%	33.6%	33.2%	34.6%	31.4%	34.1%	32.6%	30.1%
Off-Peak	5,958	5,754	6,450	6,552	6,835	6,003	5,842	7,021	5,327	5,980	6,387	6,661
%	67.4%	66.6%	66.6%	66.2%	64.4%	66.4%	66.8%	65.4%	68.6%	65.9%	67.4%	69.9%
Total	8,840	8,639	9,684	9,897	10,614	9,041	8,746	10,736	7,766	9,075	9,476	9,529

**CUSTOMERS**

Monthly Count	41	37	36	37	35	29	31	33	29	36	37	33
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.592	0.612	0.573	0.475	0.665	0.556	0.537	0.644	0.445	0.654	0.672	0.604
Load Factor (Max) %	45.7%	56.1%	63.4%	56.9%	62.4%	59.3%	51.4%	59.2%	50.3%	62.0%	66.0%	71.0%
Load Factor (NCP) %	56.7%	69.5%	74.9%	65.2%	70.6%	70.1%	60.4%	67.8%	57.6%	73.3%	81.9%	88.6%
Load Factor (CP) %	77.1%	91.7%	110.5%	120.0%	93.8%	106.8%	95.8%	91.9%	113.2%	94.9%	98.3%	117.6%

**CUSTOMER AVERAGES**

Energy Use (kWh)	217,687	236,259	271,215	264,498	306,378	316,950	284,165	325,333	267,038	255,370	256,912	288,742
Ind. Max Demand (kW)	652.71	576.74	586.10	636.33	672.36	732.05	756.84	753.08	726.87	564.03	537.05	557.18
Coincident Demand (kW)	386.62	352.79	336.08	301.99	447.42	406.66	406.14	484.85	323.22	368.63	360.66	336.35

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

24.9	26.5	26.5
23.1	24.3	24.3
24.4	25.8	25.8

Class Peak by Season

21.7	21.4	21.7
21.6	20.8	21.6

Coincident Peak by Season

16.0	15.7	16.0
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Energy Summation by Season

18,968	18,304	37,272
33.9%	32.6%	33.3%
37,010	37,761	74,771
66.1%	67.4%	66.7%
55,978	56,065	112,043

Customer Averages by Season

32	37	34
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Seasonal Factors

0.644	0.592	0.644
51.4%	48.3%	48.3%
58.9%	59.9%	59.0%
102.2%	115.3%	102.3%

Seasonal Averages

292,539	286,219	274,379
700.87	591.02	645.95
406.15	345.75	375.95



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-32TOU \*\*\*  
1001+ kW

Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	21.1	23.2	23.0	30.7	31.4	27.0	31.9	34.3	28.8	23.2	18.8	19.0
On-Peak	18.5	20.7	20.2	25.6	28.8	24.8	27.7	29.9	24.7	21.4	17.2	15.7
Off-Peak	20.9	23.0	22.7	30.0	30.9	26.3	31.5	34.0	28.5	22.5	18.4	18.8

**CLASS PEAK (MW)**

On-Peak	16.4	17.7	17.3	21.1	23.9	21.9	23.9	25.9	21.4	18.5	14.4	13.5
Off-Peak	16.6	18.8	17.9	22.4	26.1	22.5	25.0	27.3	22.3	18.5	14.2	14.5

**COINCIDENT (MW)**

System	14.9	17.2	16.2	18.6	21.5	21.9	21.1	24.3	21.0	18.6	14.1	13.3
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	3,001	4,443	4,244	4,523	5,911	4,550	5,142	5,248	3,572	3,884	3,134	3,176
%	30.8%	30.9%	29.9%	29.8%	31.3%	30.2%	30.2%	31.2%	28.4%	31.8%	31.8%	28.3%
Off-Peak	6,742	9,936	9,951	10,655	12,974	10,517	11,883	11,571	9,005	8,329	6,720	8,046
%	69.2%	69.1%	70.1%	70.2%	68.7%	69.8%	69.8%	68.8%	71.6%	68.2%	68.2%	71.7%
Total	9,743	14,379	14,195	15,178	18,885	15,067	17,025	16,819	12,577	12,213	9,854	11,222

**CUSTOMERS**

Monthly Count	16	18	17	18	19	16	19	21	17	16	13	13
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**FACTORS**  
All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.706	0.740	0.703	0.606	0.684	0.812	0.662	0.708	0.728	0.803	0.750	0.702
Load Factor (Max) %	63.2%	84.8%	84.4%	67.8%	82.3%	76.6%	73.2%	67.2%	59.7%	72.2%	71.8%	81.1%
Load Factor (NCP) %	80.5%	106.2%	108.5%	92.7%	99.0%	91.7%	93.3%	84.2%	77.3%	90.3%	94.1%	106.0%
Load Factor (CP) %	89.6%	114.5%	120.0%	111.8%	120.3%	94.2%	110.5%	94.8%	82.0%	89.9%	95.7%	115.6%

**CUSTOMER AVERAGES**

Energy Use (kWh)	614,804	808,321	841,876	856,338	1,004,178	957,368	902,519	816,878	737,739	773,264	766,299	863,183
Ind. Max Demand (kW)	1,331.88	1,306.30	1,366.05	1,731.28	1,670.97	1,713.13	1,690.02	1,666.12	1,691.78	1,466.40	1,462.00	1,458.20
Coincident Demand (kW)	940.22	966.90	960.79	1,049.41	1,143.23	1,391.54	1,118.54	1,180.22	1,231.81	1,177.66	1,096.49	1,023.02

TOU Periods - All Months:	On-Peak 11 am - 9 pm, M-F	Off-Peak 9 pm - 11 am, M-F & All Weekends
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SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season	34.3	30.7	34.3
	29.9	25.6	29.9
	34.0	30.0	34.0

Class Peak by Season	25.9	21.1	25.9
	27.3	22.4	27.3

Coincident Peak by Season	24.3	18.6	24.3
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Energy Summation by Season	28,306	22,521	50,827
	30.6%	30.2%	30.4%
	64,280	52,050	116,330
	69.4%	69.8%	69.6%
	92,586	74,571	167,157

Customer Averages by Season	18	16	17
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Seasonal Factors	0.708	0.606	0.708
	61.6%	55.5%	55.6%
	77.3%	75.9%	69.8%
	100.2%	128.0%	90.4%

Seasonal Averages	865,324	791,803	828,564
	1,649.74	1,442.62	1,546.18
	1,207.17	1,006.14	1,106.65





Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-32TOU \*\*\*  
401+ kW

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	47.6	44.3	44.0	54.5	54.7	47.8	55.2	59.2	50.0	43.2	38.5	37.3
On-Peak	42.8	40.3	39.8	48.3	51.1	44.3	49.5	53.0	44.3	40.0	35.5	32.7
Off-Peak	46.7	43.8	43.1	53.1	53.4	46.6	54.5	58.4	49.3	41.9	37.5	37.0
<b>CLASS PEAK (MW)</b>												
On-Peak Weighted	36.4	34.2	34.8	40.6	44.5	39.8	42.9	51.1	39.3	35.3	30.1	27.5
Off-Peak Weighted	36.0	35.1	34.8	42.2	46.1	39.9	44.4	52.5	40.3	35.0	30.0	28.7
<b>COINCIDENT (MW)</b>												
System Time	30.6	30.1	28.2	29.9	37.0	33.5	33.6	40.3	30.4	31.7	27.3	24.4
	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800
<b>ENERGY (MWH)</b>												
On-Peak	5,883	7,329	7,479	7,968	9,690	7,588	8,045	8,962	6,010	6,978	6,223	6,044
%	31.7%	31.8%	31.3%	31.4%	32.8%	31.5%	31.2%	32.5%	29.5%	32.8%	32.2%	29.1%
Off-Peak	12,700	15,689	16,400	17,207	19,809	16,520	17,726	18,593	14,333	14,310	13,107	14,707
%	68.3%	68.2%	68.7%	68.6%	67.2%	68.5%	68.8%	67.5%	70.5%	67.2%	67.8%	70.9%
Total	18,583	23,018	23,879	25,075	29,499	24,108	25,771	27,555	20,343	21,288	19,330	20,751
<b>CUSTOMERS</b>												
Monthly Count	56	54	53	55	53	44	50	54	46	51	49	46
<b>FACTORS</b>												
Coincident Factor (CP)	0.643	0.679	0.641	0.549	0.676	0.700	0.609	0.681	0.608	0.734	0.710	0.653
Load Factor (Max) %	53.5%	71.1%	74.4%	63.0%	73.9%	69.0%	64.0%	63.8%	55.8%	67.5%	68.9%	76.1%
Load Factor (NCP) %	70.0%	89.7%	93.9%	81.4%	87.7%	82.8%	79.5%	71.9%	69.1%	82.6%	88.0%	99.2%
Load Factor (CP) %	83.2%	104.8%	116.0%	114.9%	109.2%	98.6%	105.1%	93.7%	91.7%	92.0%	97.0%	116.5%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	329,158	423,479	454,257	454,733	551,900	544,654	519,139	514,188	440,993	414,722	390,832	451,084
Ind. Max Demand (kW)	843.35	815.50	836.28	988.28	1,023.73	1,080.88	1,111.45	1,103.88	1,083.47	841.68	777.53	811.82
Coincident Demand (kW)	542.01	553.77	556.46	542.23	692.24	756.84	676.85	752.01	659.01	617.56	551.98	530.41

TOU Periods - All Months: On-Peak Off-Peak  
11 am - 9 pm, M-F 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
<b>Summation Ind Max by Season</b>		
59.2	54.5	59.2
53.0	48.3	53.0
58.4	53.1	58.4
<b>Class Peak by Season</b>		
51.1	40.6	51.1
52.5	42.2	52.5
<b>Coincident Peak by Season</b>		
40.3	30.6	40.3
<b>Energy Summation by Season</b>		
47,274	40,825	88,099
31.8%	31.3%	31.6%
101,290	89,811	191,101
68.2%	68.7%	68.4%
148,564	130,636	279,200
<b>Customer Averages by Season</b>		
50	52	51
<b>Seasonal Factors</b>		
0.681	0.562	0.681
57.3%	54.7%	53.9%
64.6%	70.7%	60.7%
100.9%	122.2%	94.9%
<b>Seasonal Averages</b>		
497,599	417,257	457,428
1,040.85	845.46	943.15
692.42	542.81	617.61



Load Research Cost of Service Data  
Test Year Ended December 31, 2012  
\*\*\* Total General Service E-32TOU \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	71.4	65.7	66.4	80.3	80.1	71.9	79.7	91.1	75.1	67.7	61.6	58.3
On-Peak	63.4	59.0	59.0	71.7	74.9	66.0	71.2	81.4	66.2	62.1	56.0	50.4
Off-Peak	70.1	64.9	65.3	78.7	78.0	69.9	78.4	89.6	74.1	65.2	60.0	57.5
<b>CLASS PEAK (MW)</b>												
On-Peak Weighted	49.0	46.8	48.6	56.9	59.2	57.1	56.9	70.7	56.4	51.9	43.6	39.5
Off-Peak Weighted	50.9	48.7	49.5	56.7	61.1	57.5	59.4	71.1	56.7	51.1	42.9	42.8
<b>COINCIDENT (MW)</b>												
System	42.7	39.4	37.4	42.6	48.5	45.0	43.7	52.9	41.5	42.4	39.6	35.6
Time	13h@0800	15h@0800	8h@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800
<b>ENERGY (MWH)</b>												
On-Peak	8,181	9,863	10,140	10,901	13,328	10,905	11,212	13,134	8,687	10,251	9,120	8,455
%	31.1%	31.3%	31.1%	30.9%	32.6%	31.5%	31.1%	32.6%	29.5%	32.7%	31.8%	28.7%
Off-Peak	18,140	21,677	22,516	24,351	27,525	23,766	24,838	27,193	20,806	21,096	19,519	20,964
%	68.9%	68.7%	68.9%	69.1%	67.4%	68.5%	68.9%	67.4%	70.5%	67.3%	68.2%	71.3%
Total	26,321	31,540	32,656	35,252	40,853	34,671	36,050	40,327	29,493	31,347	28,639	29,419
<b>CUSTOMERS</b>												
Monthly Count	468	433	429	450	440	393	401	519	435	478	471	431
<b>FACTORS</b>												
On-Peak Factor (CP)	0.598	0.599	0.563	0.531	0.605	0.626	0.548	0.581	0.553	0.626	0.643	0.611
Load Factor (Max) %	50.5%	65.7%	67.4%	60.1%	69.8%	66.1%	61.9%	60.6%	53.8%	63.4%	63.7%	69.2%
Load Factor (NGP) %	70.9%	88.7%	90.4%	84.9%	91.5%	82.6%	83.2%	77.7%	71.3%	82.8%	90.0%	94.2%
Load Factor (CP) %	84.4%	109.7%	119.6%	113.4%	115.4%	105.5%	113.0%	104.4%	97.4%	101.3%	99.1%	113.2%
<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	56,183	72,864	76,039	78,338	92,749	88,121	89,877	77,656	67,765	65,611	60,825	68,254
Ind. Max Demand (kW)	152.34	151.83	154.61	178.41	181.96	182.62	198.77	175.44	172.50	141.74	130.84	135.14
Coincident Demand (kW)	91.14	91.02	87.09	94.67	110.11	114.37	108.95	101.87	95.35	88.75	84.10	82.59

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
91.1	80.3	91.1
81.4	71.7	81.4
89.6	78.7	89.6
Summation Ind Max by Season		
91.1	80.3	91.1
81.4	71.7	81.4
89.6	78.7	89.6
Class Peak by Season		
70.7	56.9	70.7
71.1	56.7	71.1
Coincident Peak by Season		
52.9	42.7	52.9
Energy Summation by Season		
67,517	56,660	124,177
31.7%	30.8%	31.3%
145,224	127,167	272,391
68.3%	69.2%	68.7%
212,741	183,827	396,568
Customer Averages by Season		
445	447	446
Seasonal Factors		
0.581	0.532	0.581
53.3%	52.3%	49.7%
68.3%	73.8%	63.6%
111.1%	117.9%	103.6%
Seasonal Averages		
80,296	68,750	74,523
175.50	150.53	163.02
103.23	88.44	95.83



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-34 \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	123.5	121.4	129.5	139.8	147.7	159.7	160.8	165.6	140.0	137.2	122.8	117.1
On-Peak	117.6	120.2	128.2	139.5	145.2	159.4	159.7	165.2	139.1	136.9	122.4	115.5
Off-Peak	121.1	118.3	125.3	135.0	138.7	152.4	155.7	159.8	136.6	131.0	118.7	113.3

**CLASS PEAK (MW)**

On-Peak	105.9	107.6	118.2	130.2	134.0	151.3	151.4	154.1	132.2	128.8	112.7	106.8
Off-Peak	104.8	105.5	113.0	126.8	127.6	146.0	149.6	148.8	130.7	123.3	109.2	103.4

**COINCIDENT (MW)**

System	112.1	101.3	100.5	114.9	131.1	144.2	146.2	148.9	113.9	126.0	103.0	93.7
Time	13h@0800	15h@0800	8h@0800	22nd@1700	31st@1700	27h@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	21,333	21,592	22,449	22,046	25,664	26,587	28,441	29,768	25,153	25,056	22,876	20,516
%	32.0%	32.7%	32.7%	32.7%	34.8%	32.8%	32.4%	33.9%	30.7%	34.6%	33.6%	30.3%
Off-Peak	45,334	44,439	46,201	45,372	48,084	54,470	59,339	58,043	56,778	47,361	45,208	47,192
%	68.0%	67.3%	67.3%	67.3%	65.2%	67.2%	67.6%	66.1%	69.3%	65.4%	66.4%	69.7%
Total	66,667	66,031	68,650	67,418	73,748	81,057	87,780	87,811	81,931	72,417	68,084	67,708

**CUSTOMERS**

Monthly Count	31	31	31	31	31	31	31	31	31	32	32	31
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FACTORS All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.908	0.835	0.776	0.822	0.888	0.903	0.909	0.899	0.814	0.918	0.839	0.800
Load Factor (Max) %	74.0%	74.5%	72.6%	66.0%	68.4%	69.5%	74.8%	72.6%	80.2%	72.3%	76.0%	79.2%
Load Factor (NCP) %	86.3%	84.1%	79.5%	70.9%	75.4%	73.4%	79.4%	78.0%	84.9%	77.0%	82.8%	86.8%
Load Factor (CP) %	81.5%	89.3%	93.6%	80.4%	77.1%	77.0%	82.2%	80.8%	98.5%	78.7%	90.5%	99.0%

**CUSTOMER AVERAGES**

Energy Use (kWh)	2,150,548	2,130,032	2,214,516	2,174,774	2,378,968	2,614,742	2,831,613	2,832,613	2,731,033	2,263,031	2,127,625	2,184,129
Ind. Max Demand (kW)	3,982.69	3,915.49	4,179.02	4,511.15	4,764.08	5,152.73	5,188.35	5,341.71	4,666.96	4,287.73	3,836.09	3,777.52
Coincident Demand (kW)	3,616.13	3,267.74	3,241.94	3,706.45	4,229.03	4,651.61	4,716.13	4,803.23	3,796.67	3,937.50	3,218.75	3,022.58

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
---------------------	---------------------	--------

Summation Ind Max by Season	165.6	139.8	165.6
	165.2	139.5	165.2
	159.8	135.0	159.8

Class Peak by Season	154.1	130.2	154.1
	149.6	126.8	149.6

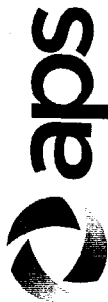
Coincident Peak by Season	148.9	114.9	148.9
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Energy Summation by Season	160,669	130,812	291,480
	33.1%	32.3%	32.8%
	324,075	273,746	597,822
	66.9%	67.7%	67.2%
	484,744	404,558	889,302

Customer Averages by Season	31	31	31
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Seasonal Factors	0.899	0.822	0.899
	66.9%	66.0%	61.3%
	71.8%	70.9%	65.9%
	75.7%	98.6%	69.4%

Seasonal Averages	2,608,667	2,163,604	2,386,135
	4,900.26	4,033.66	4,466.96
	4,355.69	3,345.60	3,850.65



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* General Service E-35 \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-lined	273.9	281.2	292.1	293.4	307.2	311.2	325.7	331.8	332.1	302.8	288.1	291.4
On-Peak	248.6	250.2	264.4	269.1	273.9	275.0	288.8	295.1	286.3	272.8	268.4	267.5
Off-Peak	271.4	278.5	289.1	290.6	302.9	308.6	324.0	328.5	330.5	299.8	284.1	287.0

**CLASS PEAK (MW)**

On-Peak	223.2	229.7	240.4	242.7	245.7	250.2	255.8	258.7	256.0	250.9	246.9	243.4
Off-Peak	231.0	238.4	254.0	253.1	258.7	270.5	279.4	275.3	266.1	264.4	256.7	254.8

**COINCIDENT (MW)**

System	223.2	213.7	222.2	219.2	230.8	237.2	254.2	245.2	236.6	242.5	231.7	220.8
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	45,312	46,133	48,042	47,803	52,239	48,228	53,236	54,874	47,923	50,782	48,346	43,280
%	29.5%	29.9%	29.4%	29.3%	30.8%	28.6%	29.1%	30.5%	27.5%	30.9%	30.5%	27.9%
Off-Peak	108,288	108,158	115,366	115,347	118,477	120,403	129,704	125,040	126,341	113,561	110,165	111,846
%	70.5%	70.1%	70.6%	70.7%	69.4%	71.4%	70.9%	69.5%	72.5%	69.1%	69.5%	72.1%
Total	153,600	154,291	163,408	163,150	170,716	168,631	182,940	179,914	174,264	164,343	158,511	155,126

**CUSTOMERS**

Monthly Count	39	39	39	39	39	39	39	39	40	40	39	38
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**FACTORS**

All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.815	0.760	0.761	0.747	0.751	0.762	0.780	0.739	0.712	0.801	0.802	0.758
Load Factor (Max) %	76.6%	75.2%	76.6%	76.2%	76.1%	74.2%	76.9%	74.3%	71.9%	74.3%	75.1%	72.9%
Load Factor (NCP) %	91.1%	88.7%	88.1%	88.3%	90.4%	85.4%	89.7%	89.5%	89.7%	85.1%	84.6%	83.4%
Load Factor (CP) %	94.3%	96.9%	100.7%	102.0%	101.3%	97.4%	98.6%	100.5%	100.9%	92.8%	93.7%	96.2%

**CUSTOMER AVERAGES**

Energy Use (kWh)	3,938,462	3,956,179	4,189,949	4,183,333	4,377,333	4,323,872	4,690,769	4,497,850	4,356,600	4,213,923	4,171,342	4,082,263
Ind. Max Demand (kW)	7,023.03	7,210.10	7,488.51	7,522.57	7,876.17	7,979.49	8,352.29	8,295.92	8,303.55	7,764.34	7,606.61	7,668.96
Coincident Demand (kW)	5,723.08	5,479.49	5,687.44	5,620.51	5,917.95	6,082.05	6,517.95	6,130.00	5,915.00	6,217.95	6,097.37	5,810.53

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

332.1	293.4	332.1
295.1	269.1	295.1
330.5	290.6	330.5

Class Peak by Season

258.7	246.9	258.7
279.4	256.7	279.4

Coincident Peak by Season

254.2	231.7	254.2
-------	-------	-------

Energy Summation by Season

307,281	278,916	586,197
29.5%	29.4%	29.5%
733,527	669,170	1,402,697
70.5%	70.6%	70.5%
1,040,808	948,086	1,988,894

Customer Averages by Season

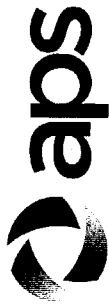
39	39	39
----	----	----

Seasonal Factors

0.765	0.790	0.765
71.5%	73.8%	68.4%
85.0%	84.3%	81.3%
93.5%	98.0%	89.3%

Seasonal Averages

4,410,058	4,086,921	4,248,490
8,095.29	7,419.96	7,757.63
6,130.15	5,738.07	5,934.11



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* STREETLIGHTS \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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**SUMMATION IND MAX (MW)**

Non-Timed	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
On-Peak	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
Off-Peak	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6

**CLASS PEAK (MW)**

On-Peak	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
Off-Peak	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6

**COINCIDENT (MW)**

System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

**ENERGY (MWH)**

On-Peak	1,875	2,598	1,687	1,499	1,395	1,163	1,134	1,430	1,564	2,147	2,200	2,178
%	16.8%	15.6%	14.1%	12.9%	12.0%	9.8%	9.9%	12.3%	13.6%	18.1%	19.3%	17.5%
Off-Peak	9,285	14,057	10,279	10,123	10,227	10,706	10,323	10,198	9,876	9,715	9,199	10,269
%	83.2%	84.4%	85.9%	87.1%	88.0%	90.2%	90.1%	87.7%	86.4%	81.9%	80.7%	82.5%
Total	11,160	16,655	11,966	11,622	11,622	11,869	11,457	11,628	11,430	11,862	11,399	12,447

**CUSTOMERS**

Monthly Count	978	980	980	980	984	984	981	983	986	989	990	989
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**FACTORS** All load factors are calculated based on 730 hours per month.

Coincident Factor (CP)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Load Factor (Max) %	45.5%	67.9%	48.8%	47.4%	47.4%	48.4%	46.7%	47.4%	46.6%	48.4%	46.5%	50.7%
Load Factor (NCP) %	45.5%	67.9%	48.8%	47.4%	47.4%	48.4%	46.7%	47.4%	46.6%	48.4%	46.5%	50.7%
Load Factor (CP) %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

**CUSTOMER AVERAGES**

Energy Use (kWh)	11,411	16,995	12,210	11,859	11,811	12,062	11,679	11,829	11,592	11,994	11,514	12,585
Ind. Max Demand (kW)	34.36	34.29	34.29	34.29	34.15	34.15	34.25	34.18	34.08	33.97	33.94	33.97
Coincident Demand (kW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOU Periods - All Months: On-Peak 11 am - 9 pm, M-F Off-Peak 9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season

33.6	33.6	33.6
33.6	33.6	33.6
33.6	33.6	33.6

Class Peak by Season

33.6	33.6	33.6
33.6	33.6	33.6

Coincident Peak by Season

0.0	0.0	0.0
-----	-----	-----

Energy Summation by Season

8,824	12,038	20,862
12.6%	16.0%	14.4%
61,044	63,211	124,255
87.4%	84.0%	85.6%
69,868	75,249	145,117

Customer Averages by Season

985	983	984
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Seasonal Factors

0.000	0.000	0.000
47.5%	51.1%	49.3%
47.5%	51.1%	49.3%
0.0%	0.0%	0.0%

Seasonal Averages

11,828	12,762	12,295
34.13	34.19	34.16
0.00	0.00	0.00



Load Research Cost of Service Data  
Test Year Ended December 31, 2012

\*\*\* DUSK TO DAWN \*\*\*

	Jan 12	Feb 12	Mar 12	Apr 12	May 12	Jun 12	Jul 12	Aug 12	Sep 12	Oct 12	Nov 12	Dec 12
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<b>SUMMATION IND MAX (MW)</b>												
Non-Timed	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
On-Peak	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Off-Peak	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4

<b>CLASS PEAK (MW)</b>												
On-Peak	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Off-Peak	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4

<b>COINCIDENT (MW)</b>												
System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time	13th@0800	15th@0800	8th@0800	22nd@1700	31st@1700	27th@1700	10th@1700	8th@1700	2nd@1600	1st@1700	5th@1900	20th@0800

<b>ENERGY (MWH)</b>												
On-Peak	324	302	273	252	231	188	193	237	262	347	370	336
%	16.8%	15.6%	14.1%	12.9%	12.0%	9.8%	9.9%	12.3%	13.6%	18.1%	19.3%	17.5%
Off-Peak	1,604	1,631	1,662	1,698	1,697	1,732	1,756	1,691	1,662	1,569	1,546	1,585
%	83.2%	84.4%	85.9%	87.1%	88.0%	90.2%	90.1%	87.7%	86.4%	81.9%	80.7%	82.5%
Total	1,928	1,933	1,935	1,950	1,928	1,920	1,949	1,928	1,924	1,916	1,916	1,921

<b>CUSTOMERS</b>												
Monthly Count	8,248	8,248	8,250	8,252	8,248	8,219	8,217	8,213	8,208	8,258	8,249	8,263

<b>FACTORS</b>												
All load factors are calculated based on 730 hours per month.												
Coincident Factor (CP)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Load Factor (Max) %	48.9%	49.0%	49.1%	49.5%	48.9%	48.7%	49.4%	48.9%	48.8%	48.6%	48.6%	48.7%
Load Factor (NCP) %	48.9%	49.0%	49.1%	49.5%	48.9%	48.7%	49.4%	48.9%	48.8%	48.6%	48.6%	48.7%
Load Factor (CP) %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

<b>CUSTOMER AVERAGES</b>												
Energy Use (kWh)	234	234	235	236	234	234	237	235	234	232	232	232
Ind. Max Demand (kW)	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.65	0.65	0.65
Coincident Demand (kW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOU Periods - All Months:			On-Peak	Off-Peak
			11 am - 9 pm, M-F	9 pm - 11 am, M-F & All Weekends

SUMMER (May-Oct)	WINTER (Nov-Apr)	ANNUAL
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Summation Ind Max by Season		
5.4	5.4	5.4
5.4	5.4	5.4
5.4	5.4	5.4

Class Peak by Season		
5.4	5.4	5.4
5.4	5.4	5.4

Coincident Peak by Season		
0.0	0.0	0.0

Energy Summation by Season		
1,458	1,856	3,314
12.6%	16.0%	14.3%
10,107	9,727	19,834
87.4%	84.0%	85.7%
11,565	11,563	23,148

Customer Averages by Season		
8,227	8,252	8,239

Seasonal Factors		
0.000	0.000	0.000
48.9%	49.0%	48.9%
48.9%	49.0%	48.9%
0.0%	0.0%	0.0%

Seasonal Averages		
234	234	234
0.65	0.65	0.65
0.00	0.00	0.00

**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

**Tab III**

**R14-2-703 Section A.3**

Attached is the number of customers by customer class for each of the previous ten years.

**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

**Tab III**

**R14-2-207 Section A.3 - Customers by Customer Class for Previous Ten Years**

Customer Class	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Residential	828,366	859,069	896,472	936,464	966,013	977,944	983,539	989,877	994,244	1,005,074
Commercial	98,424	102,393	106,374	110,547	115,304	118,945	120,305	120,229	121,116	122,360
Industrial and Irrigation	3,681	3,730	3,794	3,871	3,927	3,933	3,857	3,777	3,744	3,721
Public Street Lighting	778	794	809	831	913	919	918	1,001	972	982
Other Public Authorities	210	199	191	182	170	164	162	163	160	159
<b>Total Number of Customers</b>	<b>931,459</b>	<b>966,185</b>	<b>1,007,640</b>	<b>1,051,895</b>	<b>1,086,327</b>	<b>1,101,905</b>	<b>1,108,781</b>	<b>1,115,047</b>	<b>1,120,236</b>	<b>1,132,296</b>



**ARIZONA PUBLIC SERVICE COMPANY  
2013 RESOURCE PLANNING ANNUAL FILING  
FOR HISTORICAL YEAR 2012**

**Tab IV**

**R14-2-703 Section: A.4**

Reduction in load (kilowatt and kilowatt-hours) in the previous calendar year due to existing demand management measures, by type of management measure.

**APS DSM Electric Savings  
January - December 2012**

<b>DSM Program</b>	<b>Savings MW</b>	<b>Annual MWh Savings</b>	<b>Lifetime MWh Savings</b>
<b>Residential</b>			
Consumer Products	14.9	142,774	915,718
Existing Homes	13.7	22,069	270,665
New Construction	7.7	14,002	280,044
Appliance Recycling	2.1	11,873	71,241
Behavioral	3.9	23,543	23,543
Multi-Family	0.4	5,380	45,896
Shade Trees	0.3	477	14,297
Low Income	0.3	2,503	43,809
<b>Totals for Residential</b>	<b>43.3</b>	<b>222,621</b>	<b>1,665,213</b>
<b>Non-Residential</b>			
Large Existing Facilities	26.4	192,263	2,530,369
New Construction	4.9	31,905	467,012
Small Business	4.3	25,595	343,337
Energy Information Services	0	0	0
Schools	3.8	24,523	340,383
<b>Total for Non-Residential</b>	<b>39.4</b>	<b>274,286</b>	<b>3,681,101</b>
<b>Subtotal</b>	<b>82.7</b>	<b>496,907</b>	<b>5,346,314</b>
Codes & Standards	0.6	2,332	23,320
DR Contribution	0	52,400	0
<b>DSM Total</b>	<b>83.3</b>	<b>551,639</b>	<b>5,369,634</b>

<b>Program/Initiatives</b>	<b>Load Reduction (MW)</b>	<b>Energy Savings Year-to-Date</b>
APS Peak Solutions	63	275,940
Critical Peak Pricing	0.6	2,453
Time of Use Rates & Super Peak	118.2	517,585
<b>Total</b>	<b>181.8</b>	<b>795,978</b>

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**Tab V**

**R14-2-703 Sections B.1.a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r**

Portions of this information are competitively confidential and have been redacted. An unredacted version is being provided to Staff pursuant to an executed Protective Agreement.

Tab V  
R14-2-700 Section: B.1.a, b, c, d, e, f, g, h, i, j, m, n, o  
2012 GENERATING UNIT INFORMATION - REDACTED

B.1	PLANT	(B.1.a)		(B.1.b)	(B.1.c)	(B.1.d)		(B.1.e)	(B.1.f)			(B.1.g)		(B.1.h) (w)		(B.1.i)	(B.1.j)	(B.1.k)	(B.1.m)		(B.1.n)	(B.1.o)
		IN SERVICE	BOOK LIFE	TYPE OF CONTRACT	(APR SHARE) CAPACITY MW	Summer	Winter		AVERAGE HEAT RATE BTU/KWH	HEAT RATE Coal/Oil/Nuclear	HEAT RATE BTU/KWH Gas	50 %	75 %	100 %	FUEL COSTS \$/MBTU	COAL	GAS	OIL	MINIMUM CAPACITY GAS/OIL	MINIMUM CAPACITY NUCLEAR		
Palo Verde	Unit 1	1986	2044	Nuclear Steam	382	382	382	10,211	10,211										381.5	381.5	Yes	Base load
	Unit 2	1986	2044	Nuclear Steam	382	382	382	10,211	10,211										381.5	381.5	Yes	Base load
	Unit 3	1988	2047	Nuclear Steam	382	382	382	10,387	10,387												Yes	Base load
Four Corners	Unit 1	1993	2012	Steam	170	170	170	11,221	11,221													Base load
	Unit 2	1993	2012	Steam	170	170	170	11,143	11,143													Base load
	Unit 3	1993	2012	Steam	220	220	220	11,143	11,143													Base load
	Unit 4	1999	2038	Steam	115.5	115.5	115.5	10,029	10,029													Base load
	Unit 5	1970	2038	Steam	115.5	115.5	115.5	9,974	9,974													Base load
Cholla	Unit 1	1992	2028	Steam	116	116	116	10,472	10,472													Base load
	Unit 2	1993	2033	Steam	260	260	260	10,442	10,442													Base load
	Unit 3	1990	2035	Steam	271	271	271	10,424	10,424													Base load
Navajo	Unit 1	1974	2026	Steam	105	105	105	10,075	10,075													Base load
	Unit 2	1975	2026	Steam	105	105	105	10,059	10,059													Base load
	Unit 3	1976	2026	Steam	105	105	105	9,932	9,932													Base load
West Phoenix	Unit 1	1972	2020	CT	55	50	62	60,209	60,209													Peaking
	Unit 2	1973	2020	CT	55	50	62	23,509	23,509													Peaking
	Unit 3	1976	2028	Combined Cycle	88	85	92	11,308	11,308													Intermediate
	Unit 4	1976	2028	Combined Cycle	88	85	92	11,297	11,297													Intermediate
	Unit 5	2001	2038	Combined Cycle	117	107	120	10,218	10,218													Intermediate
Ocotillo	Unit 1	1960	2020	Steam	110	110	110	12,064	12,064													Peaking
	Unit 2	1970	2020	Steam	110	110	110	12,394	12,394													Peaking
	Unit 3	1972	2020	CT	55	50	62	20,106	20,106													Peaking
Redhawk	Unit 1	2002	2037	Combined Cycle	492	474	506	20,982	20,982													Peaking
	Unit 2	2002	2037	Combined Cycle	492	467	506	7,398	7,398													Peaking
	Unit 3	2002	2037	Combined Cycle	492	467	506	0	0													Peaking
Saguaro	Unit 1	1954	2020	Steam	110/110	110	110	29,859	29,859													Peaking
	Unit 2	1955	2020	Steam	110/110	110	110	29,859	29,859													Peaking
	Unit 3	1972	2020	CT	55/54 (N3)	50	62	19,969	19,969													Peaking
	Unit 4	1973	2020	CT	55/54 (N3)	50	62	13,120	13,120													Peaking
	Unit 5	2002	2037	CT	79	76	79	10,840	10,840													Peaking
Sundance	Unit 1	2002	2037	CT	42	41	44	10,842	10,842													Peaking
	Unit 2	2002	2037	CT	42	41	44	10,842	10,842													Peaking
	Unit 3	2002	2037	CT	42	41	44	10,842	10,842													Peaking
	Unit 4	2002	2037	CT	42	41	44	10,373	10,373													Peaking
	Unit 5	2002	2037	CT	42	41	44	10,336	10,336													Peaking
	Unit 6	2002	2037	CT	42	41	44	10,327	10,327													Peaking
	Unit 7	2002	2037	CT	42	41	44	10,330	10,330													Peaking
	Unit 8	2002	2037	CT	42	41	44	10,430	10,430													Peaking
	Unit 9	2002	2037	CT	42	41	44	10,351	10,351													Peaking
	Unit 10	2002	2037	CT	42	41	44	10,336	10,336													Peaking
Douglas	Unit 1	1972	2020	CT	16	15	19	31,322	31,322													Peaking
	Unit 2	1972	2020	CT	16	15	19	31,322	31,322													Peaking
	Unit 3	1972	2020	CT	16	15	19	31,322	31,322													Peaking
Yucca	Unit 1	1971	2043	CT	19/19 (N3)	18	22	16,889	16,889													Peaking
	Unit 2	1971	2043	CT	19/19 (N3)	18	22	16,889	16,889													Peaking
	Unit 3	1973	2043	CT	55/54 (N3)	51	61	15,748	15,748													Peaking
	Unit 4	2043	2043	CT	54	51	20,564	20,564														Peaking
	Unit 5	2043	2043	CT	48	47	49	10,443	10,443													Peaking
Solar Center	Unit 1	2011	2041	Solar PV	17 (N/0)	16	13	---	---													Intermittent
	Unit 2	2011	2041	Solar PV	16 (N/0)	15	12	---	---													Intermittent
	Unit 3	2011	2041	Solar PV	17 (N/0)	17	17	---	---													Intermittent
	Unit 4	2011	2041	Solar PV	17 (N/0)	17	17	---	---													Intermittent
	Unit 5	2012	2042	Solar PV	19.6 (N/0)	19	14	---	---													Intermittent

NOTES:  
1) Data is based on historical information, unless otherwise indicated.  
2) Annual capacity is based on all units in service for the year.  
3) First number indicates net maximum capacity on natural gas; second number indicates net maximum capacity on residual oil.  
4) Summer and winter net maximum capacities are based on gas firing when applicable (i.e., Saguaro and Yucca).  
5) Net maximum capacity based on Maximum Dependable Capacity.  
6) Unit cost adjusted to allocate the oil over each generating unit and its respective oil burn.  
7) Unit cost adjusted to allocate the oil over each generating unit and its respective oil burn.  
8) Unit cost adjusted to allocate the oil over each generating unit and its respective oil burn.  
9) Major inspections completed on West Phoenix CT1 & CT2, Saguaro CT2 and Ocotillo CT1 & CT2 in 2012.  
10) MW values for solar generating units are shown as AC.  
11) Full year of data is not yet available.

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**Tab V**

**R14-2-703 Section: B.1.p**

Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation.

**2012 Unit Emissions Rate**

<b>Plant</b>	<b>Unit</b>	<b>SO2 (lb/MWH based on</b>	<b>NOx (lb/MWH based on</b>	<b>CO2 (ton/MWH based on</b>	<b>PM10 (lb/MWH based on</b>	<b>CO (lb/MWH based on</b>	<b>VOC (lb/MWH based on</b>	<b>Hg (lb/GWH based on</b>	<b>MWH (lb/MWH based on Ownership)</b>
<b>Four Corners</b>	1	1.57	8.58	2317	0.328	0.302	0.002	0.0821	1,062,437
	2	1.50	7.41	2303	0.281	0.300	0.001	0.0817	1,071,681
	3	2.16	7.90	2702	0.277	0.303	0.002	0.0792	1,415,152
	4	1.43	4.74	1984	0.252	0.288	0.001	0.0198	696,660
	5	1.70	4.65	1987	0.058	0.285	0.001	0.0197	712,469
	<b>Plant</b>	<b>1.72</b>	<b>7.03</b>	<b>2,330</b>	<b>0.25</b>	<b>0.30</b>	<b>0.0016</b>	<b>0.063</b>	<b>4,958,399</b>
<b>Navajo</b>	1	0.637	2.37	2560	0.302	0.235	0.0282	0.0295	548,645
	2	0.385	1.75	1797	0.302	0.234	0.0282	0.0295	549,066
	3	0.549	1.69	1729	0.298	0.232	0.0278	0.0291	540,285
	<b>Plant</b>	<b>0.52</b>	<b>1.94</b>	<b>2,030</b>	<b>0.30</b>	<b>0.23</b>	<b>0.0280</b>	<b>0.029</b>	<b>1,637,996</b>
<b>Cholla</b>	1	1.657	2.634	2457	0.063	0.268	0.032	0.036	830,109
	2	2.065	3.283	2406	0.317	0.280	0.034	0.126	1,812,483
	3	1.727	2.447	2511	0.167	0.267	0.032	0.034	1,638,310
	<b>Plant</b>	<b>1.857</b>	<b>2.84</b>	<b>2,456</b>	<b>0.21</b>	<b>0.27</b>	<b>0.033</b>	<b>0.073</b>	<b>4,280,902</b>
<b>Ocotillo</b>	1	0.0099	1.442	1,558	0.090	0.284	0.065	0.0030	40,416
	2	0.0067	1.613	1,597	0.093	0.291	0.067	0.0031	29,854
	CT1	0.0121	6.434	2,345	0.133	1.649	0.042	0.0050	2,357
	CT2	0.0126	6.708	2,445	0.138	1.719	0.044	0.0052	1,756
	<b>Plant</b>	<b>0.009</b>	<b>1.8</b>	<b>1,620</b>	<b>0.094</b>	<b>0.36</b>	<b>0.065</b>	<b>0.0032</b>	<b>74,383</b>
<b>West Phoenix</b>	CC1	0.0068	3.34	1,319	0.072	0.147	0.024	0.0028	76,032
	CC2	0.0068	3.33	1,318	0.072	0.147	0.024	0.0028	65,047
	CC3	0.0061	0.49	1,198	0.053	0.540	0.079	0.0026	68,734
	CC4	0.0062	0.37	1,094	0.034	0.015	0.038	0.0025	96,940
	CC5	0.0046	0.15	916	0.021	0.025	0.005	0.0019	1,963,239
	CT1	0.0361	19.27	7,023	0.397	4.937	0.126	0.0151	1,165
	CT2	0.0143	7.65	2,789	0.158	1.961	0.050	0.0060	46
	<b>Plant</b>	<b>0.005</b>	<b>0.38</b>	<b>960.5</b>	<b>0.026</b>	<b>0.050</b>	<b>0.010</b>	<b>0.0020</b>	<b>2,271,203</b>
<b>Redhawk</b>	CC1	0.0045	0.073	870	0.019	0.061	0.0007	0.0018	2,244,065.00
	CC2	0.0044	0.074	881	0.022	0.061	0.0033	0.0018	2,429,675.00
	<b>Plant</b>	<b>0.0045</b>	<b>0.074</b>	<b>876</b>	<b>0.021</b>	<b>0.06</b>	<b>0.0021</b>	<b>0.0018</b>	<b>4,673,740</b>

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Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur dioxide, mercury, particulates, and other air emissions subject to current or expected future environmental regulation.

**2012 Unit Emissions Rate**

Plant	Unit	SO2 (lb/MWH based on	NOx (lb/MWH based on	CO2 (ton/MWH based on	PM10 (lb/MWH based on	CO (lb/MWH based on	VOC (lb/MWH based on	Hg (lb/GWH based on	MWH (lb/MWH based on Ownership)
Yucca	CT1	0.0101	5.40	1,970	0.111	1.38	0.035	0.0042	3,602
	CT2	0.0099	5.29	1,928	0.109	1.36	0.035	0.0041	3,480
	CT3	0.0133	5.09	1,841	0.104	1.28	0.033	0.0040	27,260
	CT4	0.8679	18.45	3,381	0.241	0.07	0.009	0.0252	612
	CT5	0.0073	0.23	1,349	0.060	0.02	0.022	0.0026	54,593
	CT6	0.0067	0.23	1,357	0.059	0.01	0.022	0.0026	59,993
	Plant	0.011	1.21	1476	0.070	0.31	0.024	0.0030	149,540
Saguaro	CT1	0.018	9.6	3,498	0.198	2.46	0.063	0.0075	651
	CT2	0.012	6.39	2,329	0.132	1.64	0.042	0.0050	1,382
	CT3	0.014	1.0	1,685	0.043	0.23	0.044	0.0033	14,574
	Plant	0.014	1.78	1810	0.057	0.44	0.044	0.0036	16,607
Douglas	CT1	1.30	27.6	5,051	0.36	0.103	0.0128	0.038	131
	Plant	1.30	27.6	5,051	0.36	0.103	0.0128	0.038	131
Sundance	All	0.0067	0.28	1,336	0.076	0.13	0.035	0.0023	134,675
	Plant	0.0067	0.28	1,336	0.076	0.13	0.035	0.0023	134,675
Nuclear	All	0	0	0	0	0	0	0	9,292,770
Hydro	All	0	0	0	0	0	0	0	0
Biomass	All	0	0	0	0	0	0	0	0
Solar	All	0	0	0	0	0	0	0	139,139
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TOTAL COAL*		1.6	4.6	2,334	0.24	0.28	0.018	0.062	10,877,297
TOTAL GAS/OIL*		0.0049	0.22	933	0.025	0.07	0.006	0.0019	7,320,279
TOTAL FOSSIL*		0.955	2.8	1,770	0.16	0.20	0.013	0.038	18,197,576
TOTAL APS *lb/GWH		0.63	1.9	1,166	0.10	0.13	0.009	0.025	27,629,485

\*Does not include biomass

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Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur mercury, particulates, and other air emissions subject to current or expected future environmental regulation.

**2011 Unit Emissions Rate (Tons per year based on Ownership)**

Plant	Unit	SO2	NOx	CO2	PM10	CO	VOC	Hg	MWH
<b>Four Corners</b>	1	835	4,559	1,230,899	174.0	160.5	0.9	0.044	1,062,437
	2	805	3,972	1,234,121	150.5	161.0	0.8	0.044	1,071,681
	3	1,528	5,590	1,911,875	195.7	214.5	1.30	0.056	1,415,152
	4	497	1,651	691,211	87.6	100.2	0.5	0.007	696,660
	5	606	1,656	708,012	20.7	101.6	0.5	0.007	712,469
	<b>Plant</b>	<b>4272</b>	<b>17,428</b>	<b>5,776,117</b>	<b>628.5</b>	<b>737.8</b>	<b>3.98</b>	<b>0.16</b>	<b>4,958,399</b>
<b>Navajo</b>	1	175	650	702,359	82.8	64.4	7.7	0.0081	548,645
	2	106	481	493,241	82.8	64.4	7.7	0.0081	549,066
	3	148	455	467,160	80.4	62.5	7.5	0.0079	540,285
	<b>Plant</b>	<b>429</b>	<b>1586</b>	<b>1,662,760</b>	<b>246.0</b>	<b>191.4</b>	<b>23.0</b>	<b>0.024</b>	<b>1,637,996</b>
<b>Cholla</b>	1	688	1,093	1,019,761	26.1	111.3	13.5	0.02	830,109
	2	1,872	2,975	2,180,383	287.4	253.9	30.7	0.11	1,812,483
	3	1,415	2,005	2,056,792	136.5	218.6	26.5	0.03	1,638,310
	<b>Plant</b>	<b>3974</b>	<b>6,073</b>	<b>5,256,936</b>	<b>450.1</b>	<b>583.8</b>	<b>70.7</b>	<b>0.16</b>	<b>4,280,902</b>
<b>Ocotillo</b>	1	0.20000	29.1	31,482	1.8	5.7	1.32	0.000061	40,416
	2	0.10000	24.1	23,845	1.39	4.3	1.00	0.000046	29,854
	CT1	0.01422	7.6	2,764	0.2	1.9	0.05	0.000006	2,357
	CT2	0.01104	5.9	2,147	0.1	1.5	0.04	0.000005	1,756
	<b>Plant</b>	<b>0.00875</b>	<b>66.7</b>	<b>60,237</b>	<b>3.5</b>	<b>13.5</b>	<b>2.40</b>	<b>0.00012</b>	<b>74,383</b>
<b>West Phoenix</b>	CC1	0.258	126.8	50,147	2.751	5.6	0.903	0.0001075	76,032
	CC2	0.220	108.4	42,858	2.351	4.8	0.772	0.0000919	65,047
	CC3	0.208	16.8	41,188	1.830	18.6	2.710	0.0000878	68,734
	CC4	0.300	17.8	53,036	1.670	0.7	1.862	0.0001216	96,940
	CC5	4.500	151.3	899,355	20.306	24.4	5.161	0.0018825	1,963,239
	CT1	0.021	11.2	4,091	0.231	2.9	0.074	0.0000088	1,165
	CT2	0.0003	0.2	64	0.004	0.045	0.001	0.0000001	46
	<b>Plant</b>	<b>0.0049</b>	<b>432.6</b>	<b>1,090,740</b>	<b>29.14</b>	<b>57.0</b>	<b>11.48</b>	<b>0.002</b>	<b>2,271,203</b>
<b>Redhawk</b>	CC1	5.0	82.1	975,710	21.1	67.9	0.8	0.0021	2,244,065.00
	CC2	5.4	90.1	1,070,835	27.0	74.6	4.1	0.0022	2,429,675.00
	<b>Plant</b>	<b>10.4</b>	<b>172.2</b>	<b>2,046,545</b>	<b>48.1</b>	<b>142.5</b>	<b>4.9</b>	<b>0.0043</b>	<b>4,673,740</b>

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Environmental impacts, including air emission quantities (in metric tons or pounds) and rates (in quantities per megawatt-hour) for carbon dioxide, nitrogen oxides, sulfur mercury, particulates, and other air emissions subject to current or expected future environmental regulation.

**2011 Unit Emissions Rate (Tons per year based on Ownership)**

Plant	Unit	SO2	NOx	CO2	PM10	CO	VOC	Hg	MWH
Yucca	CT1	0.0183	9.73	3,548	0.20	2.49	0.06	0.0000076	3,602
	CT2	0.0173	9.20	3,355	0.19	2.36	0.06	0.0000072	3,480
	CT3	0.1807	69.4	25,095	1.42	17.5	0.45	0.0000549	27,260
	CT4	0.2656	5.6	1,034	0.07	0.02	0.003	0.0000077	612
	CT5	0.2000	6.2	36,822	1.63	0.51	0.60	0.0000713	54,593
	CT6	0.2000	6.9	40,713	1.8	0.35	0.65	0.0000774	59,993
	Plant	0.88	107	110,567	5.3	23.2	1.8	0.00023	149,540
Saguaro	CT1	0.006	3.1	1,138	0.06	0.80	0.02	0.000002440	651
	CT2	0.008	4.4	1,610	0.09	1.13	0.03	0.000003450	1,382
	CT3	0.100	7.2	12,278	0.32	1.7	0.32	0.000023919	14,574
	Plant	0.114	14.8	15,026	0.47	3.62	0.37	0.00002981	16,607
Douglas	CT1	0.08	1.8	331	0.024	0.007	0.0008	0.000002	131
	Plant	0.08	1.8	331	0.024	0.007	0.0008	0.000002	131
Sundance	All	0.45	17.1	89,995	5.1	8.7	2.3	0.000153	134,675
	Plant	0.45	17.1	89,995	5.1	8.7	2.3	0.00015	134,675
Nuclear	All	0	0	0	0	0	0	0	9,292,770
Hydro	All	0	0	0	0	0	0	0	0
Biomass	All	0	0	0	0	0	0	0	0
Solar	All	0	0	0	0	0	0	0	139,139
<hr/>									
TOTAL COAL**		8,675	25,088	12,695,813	1,325	1,513	97.7	0.33828	10,877,297
TOTAL GAS/OIL**		17.8	812	3,413,442	92	249	23.3	0.00713	7,320,279
TOTAL FOSSIL**		8,693	25,900	16,109,255	1,416	1,761	121.0	0.34541	18,197,576
TOTAL		8,693	25,900	16,109,255	1,416	1,761	121.0	0.34541	27,629,485

\*Units are measured in lb/GWh

\*\*Does not include biomass

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**Tab V**

**R14-2-703 Section: B.1.q**

Water consumption quantities and rates

**2012 Generation Water Use<sup>1</sup>**

	Acre Feet Consumed	Gallons/MWH
Cholla	10,382	769
Four Corners	8,324	530
Navajo	3,353	491
Ocotillo	285	1162*
Palo Verde Groundwater	660	23
Palo Verde Effluent	20,420	716
Palo Verde Total	21,080	739
Redhawk Groundwater	606	42
Redhawk Effluent	3,713	256
Redhawk Total	4,319	298
Saguaro	136	3809*
Sundance	157	389
West Phoenix	2,873	451
Yucca	329	1590**
<b>Total APS Generation</b>	<b>51,238</b>	<b>656</b>

\*Ocotillo and Saguaro are unique in the APS fleet as peaking facilities which produce energy typically only when energy demands are high. However, they require using water on a continual basis to maintain systems on site. The G/MWH rates for these facilities are misleading due to the relatively small quantities of energy generated. In absolute terms, they only account for 0.29% of APS water usage in 2012 and are critical to supporting APS obligation to serve our customers.

\*\* Yucca water intensity was atypical in 2012 because the IID steam Unit required cooling tower replacement and was out of service for much of the year.

<sup>1</sup> All numbers represent APS share of ownership.



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**Tab V**

**R14-2-703 Section: B.1.r**

Tons of coal ash produced per generating unit - 2012<sup>1</sup>

		<u>Tons Fly Ash</u>	<u>Tons Bottom Ash</u>
Cholla	Unit 1	53,872	13,468
	Unit 2	123,265	30,816
	Unit 3	107,007	26,752
	Total Cholla	284,144	71,036
Four Corners	Units 1,2,3	446,513	111,628
	Units 4,5 <sup>2</sup>	156,279	39,070
	Total Four Corners	602,792	150,698
Total Company		886,936	221,734

<sup>1</sup> Numbers represent APS's share of ownership of coal plants.

<sup>2</sup> Numbers are based on APS's 15% share of ownership in the Four Corners Coal Plant units 4 and 5.

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R14-2-703 Section: 8.1.b.c, d, f, h, i, k, & m

Tab V

2012 Purchased Power Information<sup>1</sup>

Company	(8.1.a) In-service date and book life or contract period	(8.1.b) Type of generating unit or contract	(8.1.m) Minimum Capacity (MW)	(8.1.d)(8.1.d) Maximum Contract Capacity (MW)	(8.1.f) Average Heat Rate (BTU/kWh)	(8.1.i) Average Energy Cost 2012 (\$/MWh)	(8.1.k) Annual Demand Charge (\$)	(8.1.h) Var O&M (\$/MWh)
Salt River Project (Eastern Area)	6/15/2010 - 6/14/2020	WSP Agreement	0	60				
City of Azusa Exchange	1/1/2012 - 12/31/2012	WSP Agreement	30	30				
PAC Exchange	9/21/1990 - 10/31/2020	Grandfathered Agreement	n/a	480				
CE Turbo LLC <sup>2</sup>	1/27/2006 - 12/31/2029	Geothermal	0	12				
Aragonne Wind LLC <sup>2</sup>	12/29/2006 - 12/31/2026	Wind	0	90				
Snowflake White Mountain <sup>2</sup>	6/10/2008 - 5/15/2023	Biomass	0	14.5				
High Lonesome Wind Ranch, LLC <sup>2</sup>	7/18/2009 - 7/18/2039	Wind	0	100				
Glendale Energy, LLC <sup>2</sup>	1/13/2010 - 1/13/2030	Landfill Gas	0	2.86				
RE Alo 1, LLC <sup>2</sup>	9/27/2011 - 9/26/2036	Solar	0	4.5				
RE Bagdad Solar 1, LLC <sup>2</sup>	12/30/2011 - 12/29/2036	Solar	0	15				
Perrin Ranch Wind, LLC <sup>2</sup>	6/25/2012 - 6/24/2037	Wind	0	99.2				
SunE AZ1, LLC <sup>2</sup>	11/29/2011 - 11/28/2041	Solar	0	10.0				
SunE AZ2, LLC <sup>2</sup>	12/20/2012 - 12/19/2042	Solar	0	10.0				
Waste Management Renewable Energy, LLC <sup>2</sup>	8/28/2012 - 08/30/2012	Landfill Gas	0	3.2				

Notes:

1 Reflects contracts greater than or equal to 1 year in duration.

2 Renewable energy contracts.

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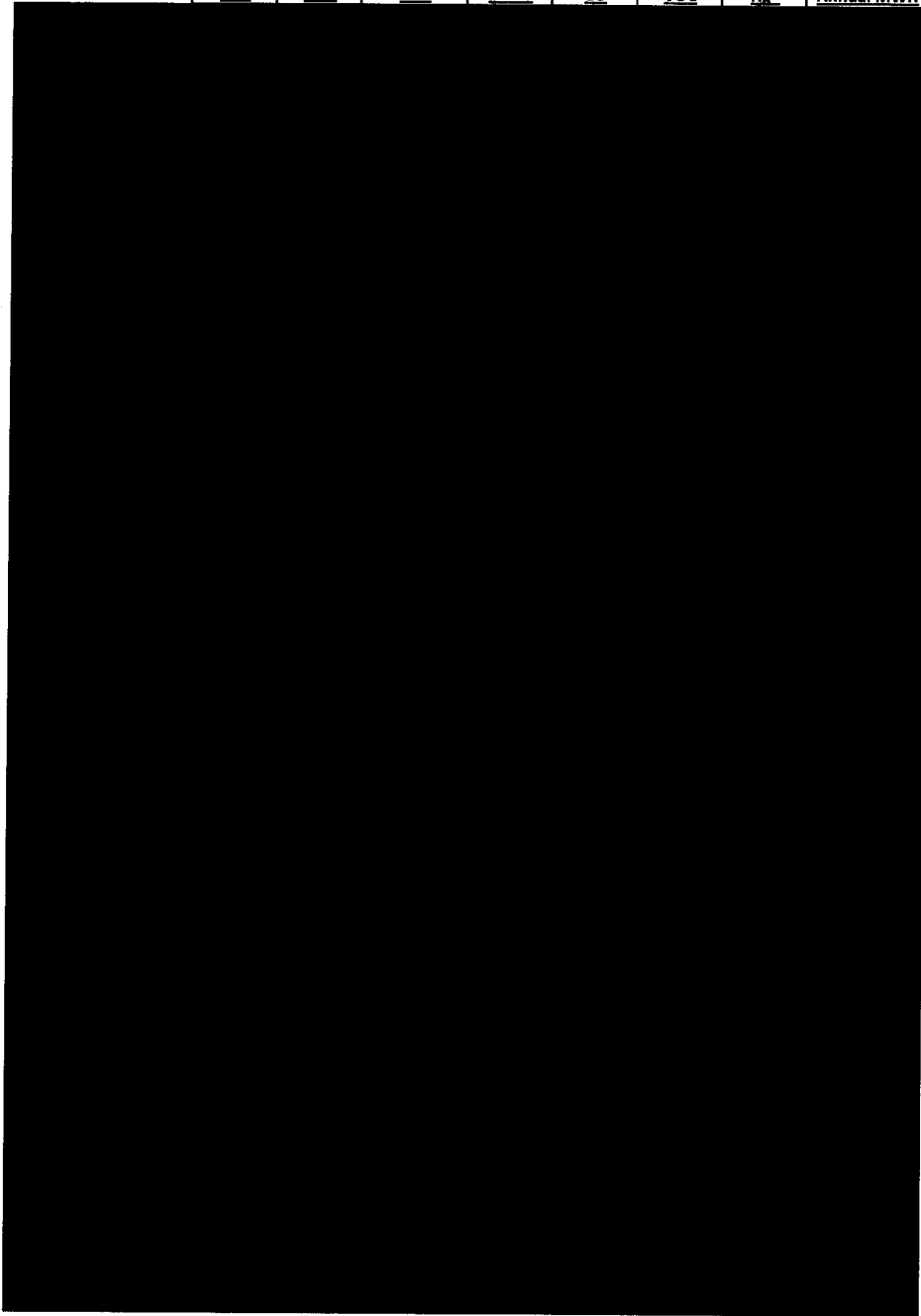
Tab V

R14-2-703 Section: B.1.p

2011 Emissions (Purchase Power Agreements)<sup>1</sup> - REDACTED

Total Tons  
(B.1.p)

<u>SO2</u>	<u>NOx</u>	<u>CO2</u>	<u>PM10</u>	<u>CO</u>	<u>VOC</u>	<u>Hg*</u>	<u>Annual MWH</u>
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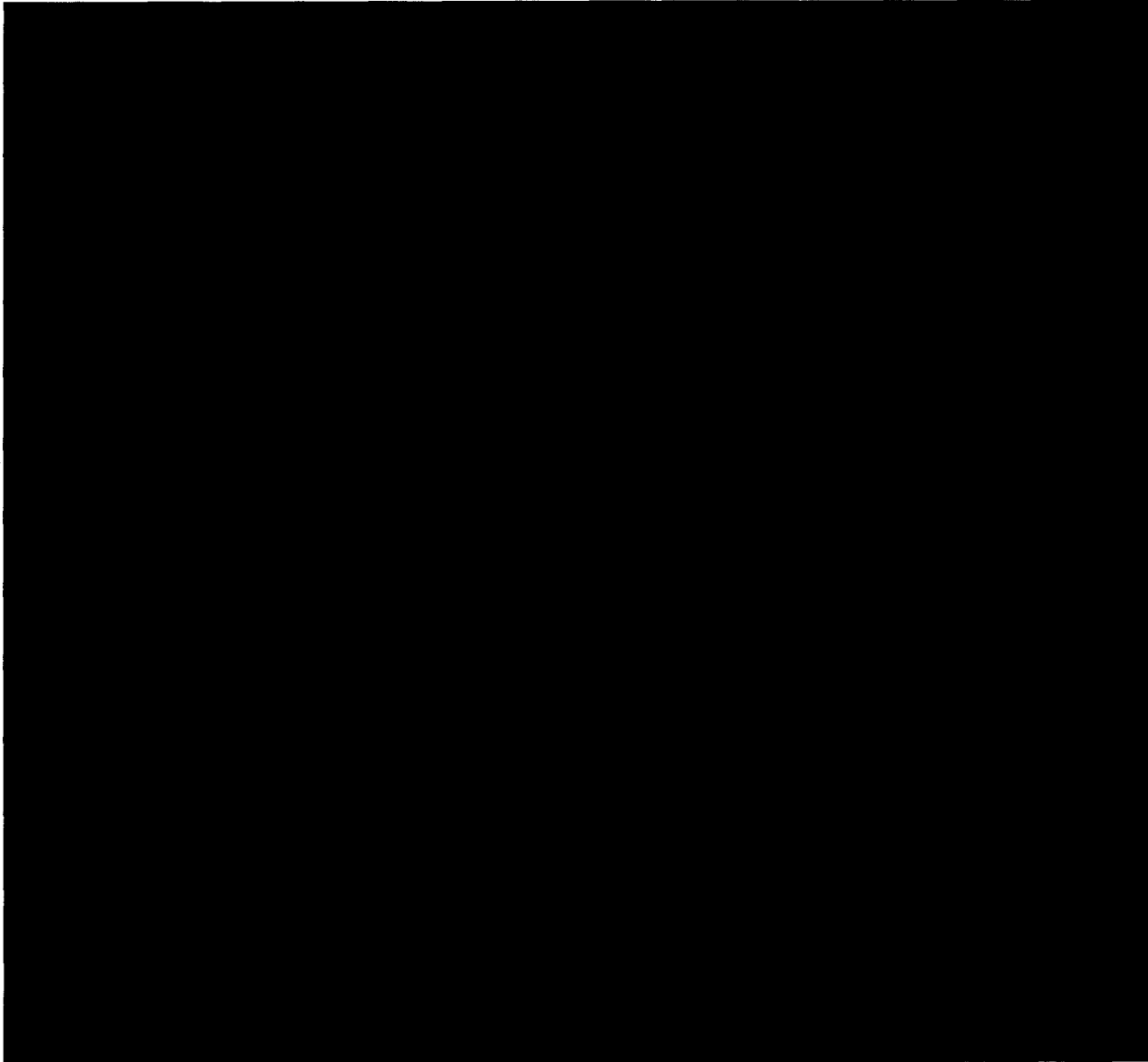
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Tab V

R14-2-703 Section: B.1.p,q,r

2012 Emissions/Water Use (Purchase Power Agreements)<sup>1</sup> - REDACTED

lb/MWH								Generation Water Use		
(B.1.p)								(B.1.r)		(B.1.q)
SO <sub>2</sub>	NO <sub>x</sub>	CO <sub>2</sub>	PM <sub>10</sub>	CO	VOC	Hg*	Annual MWH	Tons of Coal Ash <sup>2</sup>	Acre Feet Consumed	Gallons/MWh



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**Tab VI**

**R14-2-703 Section B.2.a**

**A Description of Generating Unit Commitment Procedures**

APS optimizes the use of its resources to serve native load in the most economical manner possible, while maintaining grid reliability. The process begins by forecasting the load on a day ahead basis. The load forecast is entered into a unit commitment and dispatch model (PCI GenTrader™/GenPortal™) that determines the most economic unit commitment plan for serving load, taking into account generating unit capabilities, intermittent resource production forecasts (wind, solar), fuel prices and transmission constraints. This commitment plan shows the units to be committed each hour, their projected loading level and the quantity of natural gas to be scheduled.

As part of the process, the model calculates prices for blocks of energy to help determine if it would be cheaper to buy power from the market rather than running generating units. The Day Ahead Trader compares these calculated block energy prices with actual power prices being offered in the market, then purchases either on-peak or off-peak blocks of energy, if economical. The model also calculates the breakeven price for making sales out of our generating units, after taking into account native load and any other pre-existing power sales commitments. If economical, the Day Ahead Trader will make block power sales in the market.

The day ahead commitment plan is turned over to Real Time Operations to implement. The Real Time Traders update the load and available resource forecasts and re-run the unit commitment and dispatch model to fine tune the commitment plan. They also check the hourly market to make purchases and sales of power to further optimize the system. Any Demand Response products that can be utilized within the day are also considered.

The Real Time Traders commit (start) and de-commit (shutdown) generating units as needed to meet load and sales commitments. They also update the plan as needed for generating unit or transmission outages, optimizing utilization of available resources. Additional items which must be considered during the unit commitment process include: jointly owned units which may be requested on-line by their owners, fuel supply issues, the need to operate units for voltage or other problems due to temporary line outages, unit minimum on-line and off-line time requirements, and environmental constraints.

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**Tab VI**

**R14-2-703 Section: B.2.b**

**2012 Production Cost**

Total Power Production expenses for the Calendar Year 2011 including O&M, Fuel and Purchased Power were \$1,433,304,007 of which \$(87,001,176) was related to Deferred Fuel.

Fuel and Purchased Power expenses including interchange for the Calendar Year 2011 were \$987,202,246 of which \$(87,001,176) was related to Deferred Fuel.

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**Tab VI**

**R14-2-703 Section: B.2.c**

**2012 Reserve Requirement**

The actual Reserve Margin for 2012 was 1196.4 MW or 27.5% at the time of system peak. Total resources and Class A Interruptible exceeded our load and firm off system sales by this amount.

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**Tab VI**

**R14-2-703 Section: B.2.d**

**2012 Spinning Reserve**

The Company maintains spinning reserve in compliance with quotas assigned by the Southwest Reserve Sharing Group for the Calendar Year 2012, these quotas were:

<u>2012</u>	<u>Spinning Reserve Capacity (MW)</u>
January	175
February	170
March	174
April	164
May	228
June	264
July	295
August	297
September	278
October	233
November	204
December	206



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**Tab VI**

**R14-2-703 Section: B.2.e**

**2012**

**Reliability of Generating, Transmission and Distribution Systems**

APS follows the Institute of Electrical and Electronics Engineers (IEEE) 1366 – 2003, "Guide for Electric Power Distribution Reliability Indices" for measuring reliability. Three of the most common indicators used for measuring reliability are SAIFI (System Average Interruption Frequency Index), SAIDI (System Average Interruption Duration Index) and CAIDI (Customer Average Interruption Duration Index). These indicators are calculated with "Major Event Days" excluded, in accordance with Sections 3.13, 4.5 and Annex B.

The data provided below will be the portion of SAIFI, SAIDI, and CAIDI due to Generation, Transmission, and Distribution causes, respectively. The total of all three is the overall reliability experienced by APS customers.

**Generation Reliability**

SAIFI	0
SAIDI (minutes)	0
CAIDI (minutes)	0

**Transmission Reliability**

SAIFI	0.23
SAIDI (minutes)	41
CAIDI (minutes)	183

**Distribution Reliability**

SAIFI	0.63
SAIDI (minutes)	67
CAIDI (minutes)	107

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**Tab VI**

**R14-2-703 Section: B.2.f**

**2012 Power Purchase and Sales Prices**

Month	Average Purchase Price	Average Sale Price
Jan-12	\$29.76	\$33.26
Feb-12	\$27.02	\$30.72
Mar-12	\$21.05	\$28.57
Apr-12	\$18.05	\$32.85
May-12	\$23.90	\$32.72
Jun-12	\$28.49	\$40.43
Jul-12	\$32.05	\$41.92
Aug-12	\$35.64	\$45.48
Sep-12	\$29.61	\$34.57
Oct-12	\$29.41	\$34.67
Nov-12	\$17.44	\$34.07
Dec-12	\$20.61	\$34.64

Note 1: Average purchase price represents all short-term power purchases (less than 3 years) divided by the associated megawatt hours.

Note 2: Average sale price represents total short-term power sales (less than 3 years) divided by the associated megawatt hours.

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**Tab VI**

**R14-2-703 Section: B.2.g**

**2012 Energy Losses**

Energy losses for the Calendar Year 2012 were 6.6%.

\*Energy losses shown are exclusive of APS unregulated activities.

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**Tab VII**

**R14-2-703 Section B.3**

**Total Interconnected Distributed  
Generation kW**

<b>A. Total reported for end of 2012:</b>	<b>350,721.31 kW</b>
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**Tab VIII**

**R14-2-703 Section: B.4**

**An explanation of any resource procurement processes used by the load-serving entity during the previous calendar year that did not include the use of an RFP, including the exception under which the process was used.**

In 2012, APS had no resource procurement processes that did not include the use of an RFP.